Farmingdale State College
State University of New York

COLLEGE CATALOG

2026/27



PRESIDENT'S MESSAGE



A Message from Farmingdale State College President Robert S. Prezant, PhD

We're elated that you've joined Farmingdale State College, a premier institution of learning and discovery. As Long Island's first public institution of higher education, we hold a rich history shared with over 120,000 alumni. Our campus is home to a diverse and energetic 10,000 students and we remain one of SUNY's fastest growing colleges.

Founded in 1912, we have deep roots in the wider community. Our Schools of Business, Health Sciences, Engineering Technology, and Arts and Sciences have long equipped students with the needed skills and understanding to compete in an everchanging global landscape. With a beautiful 380-acre campus located in the heart of Long Island, FSC offers abundant opportunities for real-world learning through internships and scholarly research. In fact, applied or experiential education is a requirement for all of our students, as we know this gives you an edge for future career opportunities.

This catalog will help guide you through our numerous degree programs in emerging and career focused disciplines. Our programs are designed to get you ready to thrive in careers in rapidly growing disciplines including renewable energy, business analytics, health and life sciences, aviation, computer security, criminal justice, artificial intelligence, visual communications, and many, many more. Our record demonstrates that our outstanding faculty, excellent facilities, and student-centric support services ensure a positive and enviable experience.

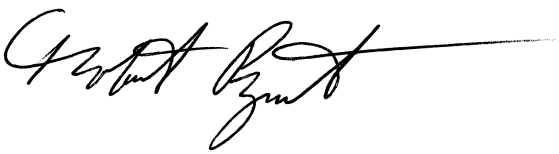
Over $300 million in ongoing building and renovation projects ensure our facilities keep up with the needs of a cutting-edge education. This investment in new construction and improved facilities for academics, student activities, and athletics, provides an exceptional setting for learning and student growth. And a recent Economic Impact Study details FSC's almost one-billion-dollar impact and 10,000 jobs added to the region in just the last five years.

Farmingdale is nationally recognized as a great educational value. The large majority of our students graduate with little or no debt. And a major bonus of our school is location. We're situated along a major corporate corridor and in close proximity to New York City, while also being mid-island, between the beautiful Atlantic and Long Island Sound coasts. Our students use Farmingdale experiences to move into outstanding careers often following opportunities made available by our many corporate connections. FSC is truly a finely tuned engine-preparing students for tomorrow.

Farmingdale State has twice been awarded a Carnegie Community Engagement Classification confirming our commitment to service and the bonds between our campus and the surrounding community. Our College has also often been recognized with the Higher Education Excellence in Diversity Award affirming our dedication to an inclusive campus. And, the availability of our faculty members allows for shared research and creative activities that produce a stronger innovative and entrepreneurial environment.

Our history and current trajectory set us on a firm path to help ensure student readiness for tomorrow's challenges. Farmingdale State is the right choice to learn, explore, discover, and pursue all the excitement that the future holds. We are glad to have you as an FSC Ram and look forward to your contributions to our community.

Sincerely,



Robert S. Prezant, PhD
President

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GENERAL INFORMATION

Farmingdale State College, State University of New York, is located on 380 acres in central Long Island. The College is easily accessible via the Long Island Expressway, the Northern and Southern State Parkways, and the Long Island Railroad.

Established in 1912 to serve a largely agrarian community, the College now meets the needs of the region and New York State through its emphasis on the applied sciences and high technology. As Long Island's first public college, Farmingdale offers the master of science, bachelor of science, bachelor of technology and a comprehensive base of associate degree programs, as well as a wide range of certificate programs, minors, non-credit workshops and seminars.

At Farmingdale State College there are approximately 10,000 students in attendance. Of the first-time, full-time baccalaureate degree seeking students that entered in fall 2019, 54% graduated with a bachelor's degree within 150% of the normal completion time and 24% transferred out. Of the first-time, full-time students that entered in fall 2019 seeking a certificate or associate degree, 41% graduated with a certificate, associate or baccalaureate degree within 150% of the normal completion time and 28% transferred out.

Under the Federal "Student Right-To-Know" Act, statistics are combined for certificates, associates and bachelor degrees. Of the total cohort of first-time full-time, degree seeking students who entered in fall 2019, 49% graduated with a certificate, associates or baccalaureate degree within 150% of the normal completion time and 26% transferred out. The four-year average graduation rate is 53% and the four-year average transfer-out rate is 24%.

MISSION OF THE COLLEGE

Dedicated to student success, Farmingdale State College delivers exceptional academic and applied learning outcomes through scholarship, research, and student engagement for Long Island and beyond. FSC's commitment to student-centered learning and inclusiveness prepares graduates to be exemplary citizens equipped to excel in a competitive, diverse, and technologically dynamic society.

In fulfilling its mission, the College shall:

- be recognized as a center of excellence in teaching and applied learning
- generate external resources to support the advancement of Farmingdale State College.
- broaden the academic foundation to promote enrollment stability.
- strengthen relationships with the Long Island community and surrounding areas.
- increase the prominence of Farmingdale State College as a center of technological innovation.
- promote civic engagement and sustain an environment that is inclusive of all learners and embraces the diversity of culture, thought, and perspectives.
- upgrade and expand buildings, grounds and facilities to accommodate program innovation, expansion, and student engagement.

You are invited to visit the College's website for the most current and up-to-date information.

ACCREDITATIONS

All curricula are registered by the State Education Department.

Middle States Commission on Higher Education[1]
Farmingdale State College is accredited by the Middle States Commission on Higher Education (MSCHE) 3624 Market Street, Philadelphia, PA 19104. (267-284-5000) www.msche.org. The MSCHE is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation (CHEA).

Farmingdale State College's accreditation was most recently reaffirmed on December 2, 2021, when it was also commended for the quality of the Periodic Review Report and process. The next self-study evaluation for the Middle States Commission on Higher Education is scheduled for 2028-2029.

Complaints and third party comments directed to Farmingdale State College's accreditor (Middle States Commission on Higher Education) may be submitted at https://www.msche.org/complaints/.

Engineering Technology Accreditation Commission of ABET[2]:
Architectural Engineering Technology (BS) Computer Engineering Technology (BS) Construction Management Engineering Technology (BS) Electrical Engineering Technology (BS)
Manufacturing Engineering Technology (BS) Mechanical Engineering Technology (BS)

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS[3]):
Medical Laboratory Science (BS)

Commission on Collegiate Nursing Education (CCNE[4]):
Nursing (BS)
Nursing RN to BS Completion – online (BS)

American Dental Association, Commission on Dental Accreditation [5]:
Dental Hygiene - Entry-Level (BS)
Dental Hygiene - Entry-Level (AAS)

Aviation Accreditation Board International (AABI)[6]:
Aeronautical Science - Professional Pilot (BS)
Aviation Administration (BS)

National Alliance of Concurrent Enrollment Partnerships (NACEP)[7]
The University in the High School Program

Granted Candidacy Status by Commission on Sport Management Accreditation (COSMA)
Sport Management (BS)

Accreditation inquires may be directed to:

1. Middle States Commission on Higher Education, 3624 Market Street, 2nd Floor West, Philadelphia, PA 19104, Phone: 267-284–5000, www.msche.org, E-mail: info@msche.org

2. Engineering Technology Accreditation Commission of ABET, www.abet.org

3. National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, Phone: 773-714-8880, www.naacls.org

4. Commission on Collegiate Nursing Education (CCNE), 655 K Street, NW, Suite 750, Washington, DC 20001, Phone: 202-887-6791, Fax: 202-887-8476, www.ccneaccreditation.org

5. American Dental Association, Commission on Dental Accreditation, 211 East Chicago Avenue, Chicago, IL 60611- 2678, Phone: 312-440-4653, www.ada.org/coda

6. Aviation Accreditation Board International, 115 S. 8th Street, Suite 102, Opelika, AL 36801, Phone: 334-748-9359, Fax: 334-844-2432, www.aabi.aero

7. National Alliance of Concurrent Enrollment Partnerships, 179 East Franklin Street, #578 Chapel Hill, NC, 27514.
Phone: 919-593-5205, Fax: 877-572-8693, www.nacep.org

Requests to review documents describing accreditation may be addressed to the Provost's Office, Horton Hall, Room 230, and further information can be found on https://www.farmingdale.edu/accreditation/index.shtml

AIR AGENCY CERTIFICATION

Federal Aviation Administration: Aeronautical Science - Professional Pilot
Inquiries may be directed to:
Farmingdale Flight Standards District Office
7150 Republic Airport, Suite 235
Farmingdale, NY, 11735
934-755-1300, Ext. 262

ACADEMIC FREEDOM

As cited in the SUNY Policies of the Board of Trustees 2019, Article XI, Title I, it is the policy of the University to maintain and encourage full freedom, within the law, of inquiry, teaching and research. In the exercise of this freedom faculty members may, without limitation, discuss their own subject in the classroom; they may not, however, claim as their right the privilege of discussing in their classroom controversial matter which has no relation to their subject. The principle of academic freedom shall be accompanied by a corresponding principle of responsibility. In their role as citizens, employees have the same freedoms as other citizens. However, in their extramural utterances employees have an obligation to indicate that they are not institutional spokespersons.

DIVERSITY EQUITY & INCLUSION FARMINGDALE STATE COLLEGE STATEMENT OF COMPLIANCE

Farmingdale State College (FSC) is committed to fostering a diverse community of outstanding faculty, staff, and students. FSC ensures equal educational opportunity, employment, and access to services, programs, and activities without regard to a person's identity. Protected classes include race, color, national origin, religion, creed, age, disability, sex, gender identity, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction.

FSC is unwavering in its promise to protect all members of the campus community (including but not limited to vendors, visitors, and guests) from harassment that is prohibited by law, or adverse treatment or retaliation against based upon a protected characteristic. The College's policies are pursuant to Federal and New York State laws and regulations prohibiting discrimination and harassment. These laws include the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, Title IX of the Education Amendments of 1972, Title VII of the Civil Rights Act of 1964 as Amended by the Equal Employment Opportunity Act of 1972, and the New York State Human Rights Law. The above- mentioned rules and regulations prohibit all forms of discrimination and harassment, including those forms related to sexual violence.

For inquiries regarding the application of Title IX and other laws, regulations and policies prohibiting discrimination, retaliation, Title IX questions, Discrimination and Sexual Harassment Complaint Procedure, and filing a complaint, contact:

Mr. Phillip C. Culver
Chief Diversity Officer and Executive Director for Inclusion
Tel: 934-420-2775
Email: Phillip.Culver@farmingdale.edu

Inquiries may also be made to:
The United States Department of Education's Office for Civil Rights
32 Old Slip, 26th Floor, New York, NY 10005-2500
Tel: 646-428-3800
Email: OCR.NewYork@ed.gov

AMERICANS WITH DISABILITIES

Farmingdale State College is committed to ensuring that all qualified individuals with disabilities have the opportunity to take part in educational and employment programs and services on an equal basis. The aim is to provide this opportunity in an integrated setting that fosters independence and meets the guidelines of the Americans with Disabilities Act (ADA) and the Rehabilitation Act of 1973.

SEXUAL HARASSMENT RESPONSE AND PREVENTION POLICY

The State University of New York (SUNY), including Farmingdale State College, is committed to maintaining campuses and a workplace free from sexual harassment and from unlawful discrimination. While all SUNY campuses have long maintained programs which apply evidence-based approaches to preventing and responding to sexual harassment and other forms of sex-based discrimination, such best practices should be uniformly applied at all SUNY campuses, allowing SUNY to leverage its power as the most comprehensive system of higher education in the country to speak with one voice in combating all forms of sexual harassment. For uniformity with SUNY and its campuses, this SUNY-wide policy has been adopted by Farmingdale State College.

Persons Affected

Faculty, Staff, Students, Third-Parties

Policy Statement

Sexual harassment is a form of sex discrimination which is unlawful in the workplace under Title VII of the Civil Rights Act of 1964, as amended, and the New York State Human Rights Law. Under Title IX of the Educational Amendments of 1972, sexual harassment also is prohibited in the provision of educational services and protects students and employees from sexual harassment.

Sexual harassment is prohibited and will not be tolerated at SUNY. Farmingdale State College has implemented measures to address and prevent sexual harassment and is taking additional affirmative steps to increase awareness of, and sensitivity to, all forms of sexual harassment in order to maintain a workplace and learning environment free of its harmful effects.

Sexual harassment is a form of workplace discrimination and employee misconduct, as well as a form of discrimination in the academic setting, and all employees and students are entitled to work and learn in a campus environment that prevents sexual harassment. All employees and students have a legal right to a workplace and a campus free from sexual harassment, and employees and students can enforce this right by filing a complaint internally with the College, or with a government agency, or in court under federal or state anti-discrimination laws, as detailed in the Discrimination and Sexual Harassment Complaint Procedure.

In accordance with applicable law, sexual harassment is generally described as unwelcome sexual advances, requests for sexual favors or other verbal or physical conduct of a sexual nature when:

· Submission to such conduct is made either explicitly or implicitly a term or condition of employment or academic benefit; or

· Submission to or rejection of the conduct is used as the basis for an employment or academic decision affecting the person rejecting or submitting to the conduct; or

· The conduct has the purpose or effect of unreasonably interfering with an affected person’s work or academic performance, or creating an intimidating, hostile or offensive work or learning environment.

Sexual harassment can include physical touching, verbal comments, non-verbal conduct such as leering or inappropriate written or electronic communications, or a combination of these things. Examples of sexual harassment may include, but are not limited to:

· Seeking sexual favors or a sexual relationship in return for the promise of a favorable grade or academic opportunity;

· Conditioning an employment-related action (such as hiring, promotion, salary increase, or performance appraisal) on a sexual favor or relationship; or

· Intentional and undesired physical contact, sexually explicit language or writing, lewd pictures or notes, and other forms of sexually offensive conduct by individuals in positions of authority, co-workers or student peers, that unreasonably interferes with the ability of a person to perform their employment or academic responsibilities.

· Physical acts of a sexual nature, such as:

· Touching, pinching, patting, kissing, hugging, grabbing, brushing against, or poking another person’s body;

· Rape, sexual battery, molestation or attempts to commit these assaults.

· Unwanted sexual advances or propositions, such as:

· Requests for sexual favors accompanied by implied or overt threats concerning a target’s job performance evaluation, a promotion or other job benefits or detriments, or an educational benefit or detriment;

· Subtle or obvious pressure for unwelcome sexual activities.

· Physical acts of a sexual nature, such as:

· Sexually oriented gestures, noises, remarks, jokes or comments about a person's sexuality or sexual experience, which create a hostile environment:

· Sex stereotyping occurs when conduct or personality traits are considered inappropriate simply because they may not conform to other people's ideas or perceptions about how individuals of a particular sex should act or look.

· Sexual or discriminatory displays or publications, such as:

· Displaying pictures, posters, calendars, graffiti, objects, promotional material, reading materials or other materials that are sexually demeaning or pornographic. This includes such sexual displays on computers or cell phones and sharing such displays while in the workplace or classroom.

· Hostile actions taken against an individual because of that individual's sex, sexual orientation, self-identified or perceived sex, gender expression, gender identity, and the status of being transgender, such as:

o Interfering with, destroying or damaging a person's workstation, tools or equipment, or otherwise interfering with the individual's ability to perform his or her employment or academic duties;

o Sabotaging an individual's work;

o Bullying, yelling, name-calling.

Such behavior can constitute sexual harassment regardless of the sex, gender, sexual orientation, self-identified or perceived sex, gender expression, status of being transgender, or gender identity of any of the persons involved. Sexual harassment is considered a form of employee and student misconduct which may lead to disciplinary action. Further, supervisors and managers will be subject to discipline for failing to report suspected sexual harassment or otherwise knowingly allowing sexual harassment to continue. Employees and students who believe they have been subjected to sexual harassment may use the Discrimination and Sexual Harassment Complaint Procedure for more details on how to have their allegations reviewed, including a link to a complaint form.

Retaliation against a person who files a complaint, serves as a witness, or assists or participates in any manner in this procedure, is unlawful, is strictly prohibited and may result in disciplinary action. Retaliation is an adverse action taken against an individual as a result of complaining about or provides information regarding unlawful discrimination or harassment, exercising a legal right, and/or participating in a complaint investigation as a third-party witness. Adverse action includes being discharged, disciplined, discriminated against, or otherwise subject to adverse action because the individual reports an incident of sexual harassment, provides information, or otherwise assists in any investigation of a sexual harassment complaint. Participants who experience retaliation should contact the campus AAO, and may file a complaint pursuant to these procedures.

SUNY campuses and System Administration shall take the necessary steps to ensure that this Sexual Harassment Response and Prevention Policy Statement is distributed, implemented, and enforced in accordance with their respective policies.

Procedures

Farmingdale State College, in its continuing effort to seek equity in education and employment, and in support of federal and state anti-discrimination legislation, has adopted the Discrimination and Sexual Harassment Complaint Policy and Procedure for prompt and equitable investigation and resolution of allegations of unlawful discrimination on the basis of race, color, national origin, religion, creed, age, disability, sex, gender identity, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction. Harassment is a form of unlawful discrimination. Any faculty or staff member who receives a complaint of sex discrimination, or who wishes to file such a complaint on their own shall report the complaint to the Title IX Coordinator at 934-420-2104 for students and 934-420-5363 for faculty, staff, and third-parties.

Definitions

Harassment on the Basis of Protected Characteristic(s) other than Sex/Gender - harassment based on race, color, age, religion, national origin, disability, sexual orientation or other protected characteristics is oral, written, graphic or physical conduct relating to an individual's protected characteristics that is sufficiently severe and/or serious, pervasive, or persistent so as to interfere with or limit the ability of an individual to participate in or benefit from the educational institution's programs or activities.

Sex Discrimination - behaviors and actions that deny or limit a person's ability to benefit from, and/or fully participate in the educational programs or activities or employment opportunities because of a person's sex. This includes but is not limited to sexual harassment, sexual assault, sexual violence by employees, students, or third parties. Employees should report sex discrimination, including but not limited to, sexual harassment and assault that they observe or become aware of, to the Title IX Coordinator.

Sexual Assault - "is defined as a physical sexual act or acts committed against a person's will and consent or when a person is incapable of giving active consent, incapable of appraising the nature of the conduct, or incapable of declining participation in, or communicating unwillingness to engage in, a sexual act or acts. Sexual assault is an extreme form of sexual harassment.* Sexual assault includes what is commonly known as "rape," whether forcible or non-forcible, "date rape" and "acquaintance rape." Nothing contained in this definition shall be construed to limit or, conflict with the sex offenses enumerated in Article 130 of the New York State Penal Law, which shall be the guiding reference in determining if alleged conduct is consistent with the definition of sexual assault.

Sexual Harassment - a form of sex discrimination and is unlawful under federal and state law. Sexual harassment includes harassment on the basis of sex, sexual orientation, self-identified or perceived sex, gender expression, gender identity and the status of being transgender. Sexual harassment includes unwelcome conduct which is either of a sexual nature, or which is directed at an individual because of that individual's sex when:

· Such conduct has the purpose or effect of unreasonably interfering with an individual's work performance or creating an intimidating, hostile or offensive work environment, even if the reporting individual is not the intended target of the sexual harassment;

· Such conduct is made either explicitly or implicitly a term or condition of employment; or

· Submission to or rejection of such conduct is used as the basis for employment decisions affecting an individual's employment.

A sexually harassing hostile work environment includes, but is not limited to, of words, signs, jokes, pranks, intimidation or physical violence which are of a sexual nature, or which are directed at an individual because of that individual's sex, sexual orientation, self-identified or perceived sex, gender expression, gender identity and the status of being transgender. Sexual harassment also consists of any unwanted verbal or physical advances, sexually explicit derogatory statements or sexually discriminatory remarks made by someone which are offensive or objectionable to the recipient, which cause the recipient discomfort or humiliation, which interfere with the recipient's job performance. Sexual harassment also occurs when a person in authority tries to trade job benefits, including hiring, promotion, continued employment or any other terms, conditions or privileges of employment, for sexual favors.

Sexual harassment in the educational setting can include unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, or physical conduct of a sexual nature. Sexual harassment of a student denies or limits, on the basis of sex, the student's ability to participate in or to receive benefits, services, or opportunities in the educational institution's program.

Sexual Violence - physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent.

Preponderance of the Evidence - the standard of proof in sexual harassment and sexual assault cases, which asks whether it is "more likely than not" that the sexual harassment or sexual violence occurred. If the evidence presented meets this standard, then the accused should be found responsible.

Related Documents

Discrimination and Sexual Harassment Complaint Policy and Procedure

SUNY document 6507 Sexual Harassment Response and Prevention Statement

Farmingdale's policy and procedures can be found in the student handbook.

For information regarding the application of Title IX and other laws, regulations and policies prohibiting discrimination, retaliation, Title IX questions, Discrimination and Sexual Harassment Complaint Procedure, and filing a complaint, contact:

Kathleen M. Flynn, Title IX Coordinator
Dewey Hall, 115
Tel: 934-420-5772
Email: flynnbk@farmingdale.edu
https://www.farmingdale.edu/dean/title-ix/

Inquiries can also be made to:

The United States Department of Education's Office for Civil Rights
32 Old Slip, 26th Floor
New York, NY 10005-2500
Tel: 646-428-3800
Email: OCR.Newyork@ed.gov

STUDENT CONCERNS, COMPLAINTS AND SUGGESTIONS

Often, concerns from or about students on matters large and small go unreported or are reported to faculty or staff members but are not shared more broadly. In order to better address these issues and facilitate the process for reporting concerns on a range of topics, the FSC community can use the student concerns reporting portal. The portal is intended to reduce uncertainty about how to raise or address an issue in a convenient way.

This digital portal will centralize how students and others provide feedback to college officials - making concerns easier to track and resolve. Whether it's a behavioral matter, academic integrity violation, or other issue affecting the overall campus experience, the College encourages students, faculty, and staff to use this tool. The reporting process is user-friendly, accessible on mobile devices, and streamlined, ensuring that FSC assigns appropriate campus departments to quickly and effectively receive and address concerns.

The portal is now live and accessible to the campus community. Please contact the Office of the Dean of Students with any questions or for more information, at dean.students@farmingdale.edu

Complaints directed to Farmingdale State College's State approval entity (State University of New York) may be submitted at https://system.suny.edu/university-life/student-concerns/

CAMPUS SAFETY REPORT

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act is a landmark federal law, originally known as the Campus Security Act. It requires colleges and universities across the United States to disclose information about crime on and around their campuses.

In compliance with this federal law, Farmingdale State College provides reports and statistics about campus safety and security programs, incidents of crime on campus, and information regarding registered sex offenders. Copies of the campus safety and crime reports are available at www.farmingdale.edu/university-police/ and at the Headquarters of the New York State University Police at Farmingdale (University Police).

BIAS CRIMES PREVENTION

Hate Crimes and the Law
It is a Farmingdale College policy mandate to protect all members of the Farmingdale College community by preventing and prosecuting bias or hate crimes that occur within the campus's jurisdiction.

Hate crimes, also called bias crimes or bias related crimes, are criminal activity motivated by the perpetrator's bias or attitude against an individual victim or group based on perceived or actual personal characteristics, such as race, color, national origin, religion, creed, age, disability, sex, gender identity, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction. Hate/bias crimes have received renewed attention in recent years, particularly since the passage of the federal Hate/Bias Crime Reporting Act of 1990 and the New York State Hate Crimes Act of 2000 (Penal Law Article 485). Copies of the New York law are available from University Police headquarters.

Penalties for bias-related crimes are very serious and range from fines to imprisonment for lengthy periods, depending on the nature of the underlying criminal offense, the use of violence or previous convictions of the offender. Perpetrators who are students will also be subject to campus disciplinary procedures where sanctions including dismissal are possible.

In addition to preventing and prosecuting hate/bias crimes, Farmingdale State College Policy also assist in addressing bias-related activities that do not rise to the level of a crime. These activities, referred to as bias incidents and defined by the University as acts of bigotry, harassment, or intimidation directed at a member or group within the Farmingdale community based on such as race, color, national origin, religion, creed, age, disability, sex, gender identity, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction, may be addressed through the State University's Discrimination Complaint Procedure or the campus conduct code. Bias incidents can be reported to University Police as well as to AA/EEO Office.

If you are a victim of, or witness to, a hate/bias crime on campus, report it to University Police by calling 934-420-2111 in an emergency, using a Blue Light or other campus emergency telephone or stopping by the Dean of Students Office in Dewey Hall. University Police will investigate and follow the appropriate adjudication procedures.

Victims of bias crime or bias incidents can avail themselves of counseling and support services from the campus as follows: Campus Mental Health Services in Dewey Hall or by calling 934-420-2006.

If you are sexually or otherwise assaulted on campus:

- Get to a safe place as soon as you can.
- Try to preserve all physical evidence; do not bathe, douche, or change your clothes.
- Contact University Police immediately (call 911 in an emergency, or use a Blue Light or other campus emergency phone), at 934-420-2111.

Remember, assaults – sexual or otherwise – are crimes; they are not the victims' fault. Victims have the right to pursue adjudication of crimes that occur on the Farmingdale State College campus through criminal courts and/or through the University's internal disciplinary process (under the Campus Code of Conduct). University Police are trained to assist with prosecution in both systems.

CAMPUS SAFETY ADVISORY COMMITTEE

The Campus Personal Safety Advisory Committee was established to provide advice and written reports on issues relating to personal safety on the campus, as well as to perform requirements of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. Additionally, it is a purpose of the committee to inform the campus community of prevention programs, intervention programs, awareness programs, and to ensure that all safety policies and regulations are being adhered to by the College such that there exists a safe work and learning environment. The committee is comprised by members of all campus constituencies and, in accordance with State law and State University regulations must have as its membership a numerical majority being female. To bring concerns to this committee, you may either ask your student government representative, faculty representative, union representative, or the Chief of University Police as Chair of the committee to represent your views, concerns and/or needs.

ENVIRONMENTAL HEALTH AND SAFETY OFFICE

The Office of Environmental Health and Safety (EH&S) at Farmingdale State College supports the mission of the State University of New York (SUNY) System by promoting the principles of safety, environmental compliance, and risk management and assists the College in achieving these outcomes through education, hazard assessment, exposure mitigation, and the responsible management of hazardous materials.

Farmingdale State College is committed to the safety and well-being of our employees, students and visitors. We will ensure that policies and practices are developed and adopted that will best protect our campus community, our facilities and our resources. The ultimate goal of EH&S is to provide guidance to every manager, supervisor, faculty or staff member, and student of Farmingdale State College so that a safe, healthful

and environmentally sustainable learning environment is achieved and maintained.

NOTIFICATION OF RIGHTS UNDER FERPA FOR POSTSECONDARY INSTITUTIONS

In accordance with the provisions of the Family Educational Rights and Privacy Act (FERPA) (20 USC 1232g; 34 CFR Part 99), Farmingdale State College has adopted the following regulations to protect the privacy rights of its students. Copies of this statement as well as the law are available upon request in the Office of the Registrar.

Disclosure of Education Records
Farmingdale State College will disclose information from a student's education record only with the written or electronic consent of the student. At its discretion, Farmingdale State College may release information without consent, under the following circumstances:

- To school officials who have a legitimate educational interest in the records;
- Upon request to officials of another school in which a student seeks or intends to enroll or where the student has already enrolled;
- To certain federal, state, SUNY, and local education officials in connection with certain federal or state supported education programs;
- In connection with a student's request for or receipt of financial aid, as necessary to determine the eligibility, amount, or conditions of that aid;
- If required by a state law concerning the juvenile justice system which law requires disclosure and which was adopted before November 19, 1974.
- To organizations conducting certain studies/research for or on behalf of the College;
- To accrediting organizations;
- To comply with a judicial order or a lawfully issued subpoena or IRS summons after making a reasonable effort to notify the student in advance;
- To appropriate parties in a health and/or safety emergency;
- Where the student and SUNY are engaged in litigation;
- Where the information to be disclosed is that designated as "directory information";
- To the victim of a student determined by the College to be an alleged perpetrator of a crime of violence or non-forcible sex offense; the final results reached on or after October 7, 1998 in a disciplinary proceeding involving that charge;
- To the parents of a student under the age of 21; information that the college has determined that the student has committed a disciplinary violation with respect to use or possession of alcohol or a controlled substance.
- To anyone if the disclosure is the final results of a disciplinary proceeding involving a crime of violence or non forcible sex offense and the student was found responsible.

Directory Information
Farmingdale State College designates the following items as Directory Information:

- Student's Name
- Address
- Telephone listing
- Electronic mail address
- Photograph
- Degrees, honors and awards received
- Date and place of birth
- Major field of study n Dates of enrollment n Grade level
- The most recent educational agency or institution attended
- Participation in officially recognized activities and sports
- Weight and height of member of athletic teams

The College may disclose any of these items without prior written consent of the student. Students may opt out of the release of this information by completing the FERPA Disclosure Form.

Right to File a Complaint
Students are afforded the right to file a complaint with the US Department of Education concerning alleged failures by Farmingdale State College to comply with the requirements of FERPA. The name and address of the office administering FERPA is:
Family Policy Compliance Office US Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

For more information about FERPA, please visit
www.farmingdale.edu/registrar/ferpa.shtml

NOTICE FOR DIRECTORY INFORMATION

The Family Educational Rights and Privacy Act (FERPA), a federal law, requires that Farmingdale State College, with certain exceptions, obtains your written consent prior to the disclosure of personally identifiable information from your education records. However, Farmingdale State College may disclose appropriately designated "directory information" without written consent, unless you have advised the College to the contrary in accordance with College procedures. The primary purpose of directory information is to allow Farmingdale State College to include this type of information from your education records in certain publications. Examples include:

- A playbill, showing role in a drama production;
- The annual yearbook;
- Honor roll or other recognition lists;
- Graduation programs; and
- Sports activity sheets, such as for wrestling, showing weight and height of team members.

PARENTAL NOTIFICATION POLICY

In October 1998, Congress passed the Higher Education Amendment which permits post-secondary institutions to disclose to parents or legal guardians of students under 21, without their consent, information regarding the student's violation of any federal, state, or local law, or any rule or policy of the institution governing the use or possession of alcohol or a controlled substance. The Office of Student Life or the Office of the Dean of Students normally informs parents of any alcohol or drug violation involving students under 21.

PUBLIC OFFICERS LAW

Farmingdale State College complies fully with the New York State Freedom of Information Law (Article 6, §§ 84–90), which was enacted to ensure public accountability of state agencies while protecting individuals against unwarranted invasions of personal privacy. The regulations are posted on the College's website at https://www.farmingdale.edu/administrative-services/foil.shtml.

Freedom of Information Law (FOIL) requests are to be submitted online or in writing to the campus Records Access Officer:

Records Access Officer
Farmingdale State College
Horton Hall, Room 155
2350 Broadhollow Road
Farmingdale, New York 11735

Phone: (934) 420-2728
Email: OLA@Farmingdale.edu
Online: https://www.farmingdale.edu/administrative-services/foil.shtml

The request must reasonably describe the record or records that are being requested, and be as specific as possible (e.g., indicate dates, titles, specific files and designations, as appropriate). Reasonable fees may be charged for duplication of materials.

Records may be made available for public inspection at the records access office or at the location at which they are maintained. All requests for in-person inspection of records should be submitted to the RAO.

Requesters may appeal a FOIL response within 30 days. Appeals must be in writing, and should be sent to:

FOIL Appeals Officer, State University of New York, at H. Carl McCall SUNY Building, 353 Broadway, Albany, NY 12246.

ELECTRONIC DEVICES IN THE CLASSROOM

The College is committed to educationally sound uses of technology in the classroom and to preventing technology from becoming disruptive to the learning environment. The course instructor decides when, if, and what type of technology is to be used during class. Any use of technology that degrades the learning environment, promotes dishonesty, or is used for illegal activities is prohibited.

Electronic devices and illegal activities: Activities involving electronic devices that violate laws, such as those related to intellectual property rights or copyrights, invasions of privacy, or sexual or other forms of harassment are prohibited. Examples include using a camera phone to videotape a lecture or meeting or taking photos without the participants' written permission. It is advisable for instructors to anticipate that such issues with wireless communications and electronic devices may arise and publish restrictions in their course syllabi.

GUIDELINES FOR THE USE OF DIGITAL MATERIAL: MUSIC, VIDEO, PICTURES, SOFTWARE AND GAMES

The Digital Millennium Copyright Act of 1998 ("DMCA"), which addresses copyright issues regarding digital materials, was signed into law by the President on October 28, 1998. One of the provisions of the DMCA is to limit the liability of educational institutions for damages due to copyright infringement by members of their community. The College complies with all DMCA's requirements and requires that:

- all members of the College community must follow the College's Copyright Guidelines for digital material
- all members of the College community must adhere to the College's Acceptable Use Policy

Both policies are available on the Farmingdale website at https://www.farmingdale.edu/policies/?pid=214625

USE OF COLLEGE EMAIL

Information Technology (IT) has assigned all students and staff an official Farmingdale email address. It is to this official address that the College will send email communications.

The College has the right to expect that such communications will be received and read in a timely fashion. Official email communications are intended to meet only the academic and administrative needs of the campus community.

Students and staff are obliged to check their email periodically. Any questions regarding the set up or access of the Farmingdale email account should be directed by email to helpdesk@farmingdale.edu or by calling 934-420-2754.

Students seeking to contact College faculty, staff and/or offices via email must use their Farmingdale State College email address. Emails coming from private email providers may not be answered if doing so violates laws pertaining to the privacy of personal information.

CONSUMER INFORMATION

Farmingdale State College publishes information and data on a wide variety of consumer information topics, including (but not limited to) Security and Fire Safety, Privacy of Student Records (FERPA), Articulation Agreements, etc. Complete information can be obtained at the following link - www.farmingdale.edu/consumer-information/

GENERAL INFORMATION

ACADEMIC CALENDAR

Fall 2026

Event	Date	End Date
Faculty and Staff Convocation Professional Development Day	Aug. 26	
Last Two Days of Registration	Aug. 27	Aug. 28
Regular full-term classes begin First 7-week term begins	Aug. 31	
***Last day for in-person schedule changes for regular full-term and First 7-week term (5 PM)1**	Sep. 4	
No Classes Labor Day	Sep. 7	
Regular Saturday classes begin Accelerated Saturday classes begin	Sep. 12	
***Last day for schedule changes for Saturday classes and Second 7-Week term (5 PM)**	Sep. 18	
Last day to withdraw for First 7-Week term	Sep. 24	
PM Governance Meeting No classes that begin after 12:00 PM	Sep. 29	
Classes in session (Indigenous Peoples' Day)	Oct. 12	
Last day to submit a grade OR#grade extension for incompletes (for Spring/Summer)	Oct. 13	
Open House	Oct. 18	
First 7-Week term end (Final Exam Session)	Oct. 19	
*Second 7-week term begin	Oct. 21	
Last day to withdraw for regular full-term and Saturday classes	Oct. 30	
AM Governance Meeting (Election Day) No classes that begin before 12:00 PM	Nov. 3	
Open House	Nov. 7	
Classes in session (Veterans Day)	Nov. 11	
Last day to withdraw for Second 7-Week term	Nov. 16	
Accelerated Saturday classes end (Final exam session)	Nov. 21	
No Classes (Thanksgiving Break)	Nov. 25	Nov. 28
Second 7-week term end (Final Exam Session)	Dec. 11	
Regular full-term classes end	Dec. 11	
Regular Saturday classes end (Final exam session)	Dec. 12	
Last day for online schedule changes for regular full-term and First 7-week term: Sunday, September 6 (11:59 PM)		
**Study Day/ Make-Up Day for regular full-term classes	Dec. 14	
Final Exam/Evaluation Period for regular full-term classes	Dec. 15	Dec. 21

Event	Date	End Date
Semester Ends	Dec. 21	
GRADES DUE 72 HOURS AFTER FINAL EXAM Regular full-term, Regular Saturday and Accelerated Saturday classes. **GRADES DUE 24 HOURS AFTER FINAL EXAM - First 7-Week and Second 7-Week terms**		
Accelerated Saturday classes meet 11 times and meet for 68 minutes for each hour of instruction. Saturday classes meet 14 times during the semester and meet for 54 minutes for each hour of instruction. Special arrangements must be made between a student and an instructor, or between a faculty or staff member and his/her department chair or supervisor, for religious observances. *For the Financial Refund schedule, refer to the Student Accounts Web page. **December 14 (Monday) may be utilized as a campus make-up day, at the discretion of campus administration.		

Intersession 2027

Event	Date	End Date
Winter Session Begins	Jan. 5	
Last day for schedule changes	Jan. 6	
Last day to withdraw	Jan. 12	
No Classes MLK Day	Jan. 18	
Winter Session Ends	Jan. 21	
GRADES DUE 72 HOURS AFTER FINAL EXAM		
Special arrangements must be made between a student and instructor for religious observances. Special arrangements must be made between a faculty or staff member and his/her department chair or supervisor for religious observances. *For the Financial Refund schedule, refer to the Student Accounts Web page.		

Spring 2027

Event	Date	End Date
Last two Days of Registration	Jan. 20	Jan. 21
Regular full-term classes begin First 7-week term begin	Jan. 25	
***Last day for in-person schedule changes for regular full-term and First 7-week term (5 PM)[1]**	Jan. 29	
Regular Saturday classes begin Accelerated Saturday classes begin	Jan. 30	
***Last day for schedule changes for Saturday classes and Second 7-week term (5 PM)**	Feb. 5	
Classes meet (Presidents Day)	Feb. 15	
Last day to withdraw for First 7-Week term	Feb. 17	
No classes (AM Professional Development - PM Governance Meeting)	Feb. 22	
Last day to submit a grade OR grade extension for incompletes (for Fall/Summer semester)	Mar. 8	
First 7-Week term end (Final Exam Session)	Mar. 15	
*Second 7-Week term begin	Mar. 17	
No classes (Spring Break)	Mar. 22	Mar. 27
Last day to withdraw for regular full-term and Saturday classes	Apr. 2	
Admitted Students Day	Apr. 3	

Event	Date	End Date
No classes (AM Governance Meeting - PM Professional Development)	Apr. 6	
Spring Open House	Apr. 11	
Accelerated Saturday Classes End (Final Exam Session)	Apr. 17	
Last day to withdraw for Second 7-Week term	Apr. 19	
Regular Saturday classes end (Final Exam Session)	May. 8	
Regular full-term classes end	May. 11	
Second 7-Week term end[2]	May. 12	
Study day / Make-up day for regular full-term classes	May. 12	
Final Exam / Evaluation Period Regular full-term and Second 7-Week term	May. 13	May. 19
[1] Last day for online schedule changes for regular full-term and First 7-week term: Sunday, January 31 (11:59 PM) [2] May 12 (Wednesday) may be used in lieu of April 6th (Governance/Professional Development) session for Second 7-Week term		
Semester Ends	May. 19	
GRADES DUE 72 HOURS AFTER FINAL EXAM Regular full-term, Regular Saturday and Accelerated Saturday classes **GRADES DUE 24 HOURS AFTER FINAL EXAM First 7-week and Second 7-week terms**		
Commencement	TBD	
Accelerated Saturday classes meet 11 times and meet for 68 minutes for each hour of instruction Saturday classes meet 14 times during the semester and meet for 54 minutes for each hour of instruction Special arrangements must be made between a student and an instructor, or between a faculty or staff member and his/her department chair or supervisor, for religious observances * For the Financial Refund schedule, refer to the **Student Accounts Web page.** ** May 12 (Wednesday) may be utilized as a campus make-up day, at the discretion of campus administration		

UNDERGRADUATE ACADEMIC INFORMATION

COLLEGE REQUIREMENTS

The completion of EGL 101 (Composition I: College Writing) and EGL 102 (Composition II: Writing About Literature) with a grade of C or better are graduation requirements for all students at Farmingdale State College. Please refer to the General Education requirements in the catalog. Additionally, students enrolled in baccalaureate programs are required to complete a Writing Intensive ("W") course with a grade of C or better as outlined in their program of study as well as satisfaction of an approved Applied Learning experience. Students should consult with their program advisors to ensure that all requirements for graduation have been successfully satisfied.

GRADES AND ACHIEVEMENT POINTS

The following is the official college grading system:

Minimum Grade Percentage Equivalent	Grade	GPA Equivalent	Interpretation
93.0	A	4.00	Excellent
90.0	A-	3.67	
87.0	B+	3.33	
83.0	B	3.00	Good
80.0	B-	2.67	
77.0	C+	2.33	
73.0	C	2.00	Satisfactory
70.0	C-	1.67	
67.0	D+	1.33	
60.0	D	1.00	Minimum Passing
0	F		Failure
0	I		Incomplete
0	W		Withdrawal
0	UW		Unofficial Withdrawal
0	N	0	Never Attended

To determine the cumulative grade point average, multiply the achievement point value of each grade by the credits designated for each subject, then divide the total achievement points by the number of credits carried.

Only grades earned in the college are considered in the computation of averages for all students. A student must attain a 2.0 cumulative grade point average in order to qualify for graduation. If at the end of any semester a student is deficient in achievement points or deficient in a major course (see specific program requirements), the student may be placed on probation or considered for dismissal, depending on the extent of the deficiency. On recommendation of the Department Chair, a student may be required to carry a reduced schedule.

ACADEMIC STANDING FOR MATRICULATED STUDENTS

To be eligible for graduation, a Farmingdale student must achieve a cumulative grade point average of at least 2.0. To advance satisfactorily toward graduation, students are advised to remain in "good academic standing" which is defined in the following.

GOOD ACADEMIC STANDING – A student is in satisfactory academic standing when above the level for probation according to the College's guidelines.

ACADEMIC PROBATION – The purpose of academic probation is to alert the student and the institution to problems associated with the student's academic performance and to recommend or implement strategies for improvement. According to College policy, students who fail to obtain a minimum grade point average of 2.0 in any particular semester will automatically be placed on academic probation which is a warning that their good academic standing is in jeopardy. However, your major may have higher standards to continue in that major. Students placed on academic probation are permitted to continue with their studies at Farmingdale, but are expected to meet with faculty advisors and to seek tutoring and further assistance.

ACADEMIC SUSPENSION – Students who are placed on academic probation (one semester with a GPA below 2.0, not including summer or winter intersession) are subject to suspension in the following semester. A student who has been suspended for poor academic performance is not permitted to enroll at the College in any coursework for one academic semester (fall or spring) from the date of suspension.

FRESHMAN FORGIVENESS POLICY

First-year, first-semester freshman students with a GPA below 2.0 will be put on Academic Warning for the following semester. A "hold" will be placed on their registration until an Action Plan for success is appropriately executed with the College. Once filed, the hold will be released and students are expected to abide by the academic success plans and goals as outlined in their Action Plan. Thereafter, freshman students will follow the academic probation/suspension policies outlined above. First-year, first-semester freshman students who fall below full-time status are not eligible. Students who withdraw and/or never attend and fall below full-time status in their first semester are ineligible and will follow the academic probation policy.

APPEAL OF ACADEMIC SUSPENSION FOR MATRICULATED STUDENTS

Any student who has been suspended for academic reasons may appeal that decision by submitting a petition, in writing, to the appropriate academic department chair requesting a review of the decision. The appeal should include supporting evidence such as medical explanations and changes in grades that might justify a reversal of academic suspension.

ACADEMIC REINSTATEMENT FOLLOWING SUSPENSION FOR MATRICULATED STUDENTS

Academic reinstatement refers to the process by which a student is granted permission to return to Farmingdale State College following an absence of one or more semesters due to suspension for reason of poor academic performance. A student seeking reinstatement should petition the academic chair, in writing, requesting permission to return. Supporting evidence, such as successful completion of coursework at another institution while on suspension from Farmingdale State College, must be submitted in writing with the petition. The reinstatement permits the student to resume matriculated status in the same department for the semester immediately following the one during which they were suspended.

ACADEMIC READMISSION FOR MATRICULATED STUDENTS

Academic readmission refers to the process by which a matriculated student seeks permission to return to Farmingdale State College after an absence of two or more academic semesters. There are two different processes:

1. Students who have discontinued their attendance for less than five years and wish to apply for readmission to complete their degree are advised to meet with the appropriate Chair to discuss their intentions and evaluate their academic record. Students who withdrew in poor

standing or who were academically suspended will be expected to present evidence that they are capable of improved academic performance on return. A student who re-enrolls in the same major in which they were last enrolled and re-enrolls within five years of the last date they attended the College is allowed to meet graduation requirements that were in effect at the time the student was originally enrolled.

2. For students who have discontinued their attendance for five or more years and wish to apply for readmission to complete their degree, they must file a SUNY application as a "TRANSFER" student and list Farmingdale State College (95) as a prior college. The application fee is non-refundable regardless of the readmission decision. Each application will be evaluated according to the specific admission criteria in place at the time of the readmission application. A student who re-enrolls in the same major in which they were last enrolled and re-enrolls more than five years after they last attended the College must meet the most current graduation requirements. All course work previously completed will be reviewed on a course-by-course basis to determine whether it meets current graduation requirements. Only credits for courses that meet the requirements of the current major will be used to satisfy the program requirements. All courses completed will remain on the student's transcript. Students can file a SUNY application online at www.suny.edu/attend. For more information contact the Admissions Office at 934-420-2200.

For both processes, a student who re-enrolls in a different major than the one in which they were last enrolled is subject to a course-by-course evaluation to determine whether the completed course work meets the requirements of the new major. Only credits for courses that meet the requirements of the current major will be used in calculating the student's graduation grade-point average. However, all courses completed will remain on the student's transcript. A student re-enrolling in a new major is required to meet the graduation requirements at the time of re-enrollment.

POLICIES FOR ACADEMIC STANDING FOR NON-MATRICULATED STUDENTS

1. First-time students, or students with prior academic credit who are in good academic standing, may take a maximum of 5 classes or 16 credits each semester (fall/spring), unless an appeal is processed through the Non-Matriculated Student Academic Advisor located in the Student Success and Advising Center.
2. Good Academic Standing – students are in good academic standing when their GPA is 2.0 or higher.
3. Academic Probation – students who fail to obtain a minimum grade point average of 2.0 in any particular semester will automatically be placed on academic probation.
4. Academic Suspension – students who are on academic probation twice in succession (not including summer, or winter intersession) are subject to suspension. Students who have been suspended for poor academic performance are not permitted to enroll at the College in any coursework for one academic semester (fall or spring) from the date of suspension.
5. Appeal of Academic Suspension – Any student who has been suspended for academic reasons may appeal that decision by submitting a petition, in writing, requesting a review of the evidence. The appeal should include supporting evidence such as medical evidence or changes in grades that might justify a reversal of academic suspension. To initiate this appeal, the student should first meet with the Non- Matriculated Student Academic Advisor. Review and final decision of an appeal will be made by the Provost's Office.
6. Non-Matriculated students may earn a maximum of 32 credits, after which they must seek admission to a program or request permission from the Non-Matriculated Student Academic Advisor to remain as a non-matriculated student. Failure to do so will prevent the student from registering for further courses.
7. Non-Matriculated students who wish to continue taking courses with non-matriculated status after their initial term at Farmingdale are required to submit official high school and/or college transcripts to the Admissions Office in order to maintain registration privileges for future semesters.

See the Non-Matriculated Student Handbook for Information on readmission and advisement on the Student Success and Advising Center website.

CHANGE OF MAJOR

Matriculated students who wish to declare or change their program of study must file a curriculum/major change application prior to the semester in which the change is to be effective. For further information, call the Registrar's Office at 934-420-2776, or email regoffice@farmingdale.edu

COURSE NUMBERING

Each course is identified by a six digit code.

The three letters in the code identify the department offering the course, and the three digits following the letters identify the course within the department.

Degree credit courses are numbered 100 and above. College courses are numbered from 001 to 099 and for purposes of determining tuition and fees only, these courses are assigned an appropriate number of non-college units (ncu) rather than college credit.

LATE REGISTRATION AND DROP/ADD PERIOD

The official Late Registration and Drop/Add period takes place during the first week of classes. This period officially ends at midnight on the seventh day after the first class of the semester. Students may add or drop classes from their schedule during this week. Students who have not yet registered for classes may be permitted to do so during this period under extenuating circumstances only. During this period, students will receive 100% refund for dropped courses and/or cancellation of their schedule.

All registration activities cease AFTER the first week of classes. The College does not guarantee that any student will be allowed to register for classes after the official late registration, add/drop period.

DROP AND WITHDRAWAL PERIOD

Courses that are dropped during the first week of classes will not appear on a student's transcript.

During the first week of classes students will receive 100% refund for courses that are dropped and for schedules that are canceled. During the second week of classes students will be entitled to a 70% refund. During the 3rd week they are entitled to a 50% refund and during the 4th week they are entitled to receive a 30% refund. After the 4th week of classes students are fully liable for all tuition and fees.

The withdrawal process begins on the second week of classes. Starting the second week of classes students who initiate a withdrawal, course or semester withdrawal will receive a "W" for that course on their transcript. The financial liability will be determined by the refund schedule in effect at the time the withdrawal is processed. For further information on the withdrawal procedure, refer to either "WITHDRAWAL FROM A COURSE" or "WITHDRAWAL FROM THE COLLEGE" sections in the catalog.

PERMISSION TO CARRY EXTRA COURSES

Any student who wishes to carry more than 18 credits during any one semester must receive written permission from the Department Chair and the School Dean of the student's major. To obtain this permission, a student must display evidence which substantiates the ability to succeed in the additional course work.

- Fall & Spring - Maximum 18 credits
- Summer - Maximum 14 credits*
- Winter Intersession - Maximum 4 credits

*In the summer students are not permitted to take all 14 credits in one session. Students are limited to 7 credits in individual sessions (A/B/C/E).

PERMISSION TO ENROLL IN OFF-CAMPUS COURSES

Students who wish to register for courses at other SUNY colleges must go through the cross-registration process. SUNY cross-registration information is available on the Cross Registration webpage.

Students who wish to register for courses at other colleges (Non-SUNY) are advised to obtain course descriptions and to consult with the Department Chair and the School Dean. The off-campus approval forms are available in the Office of Transfer Services.

SPECIAL SESSION REGISTRATION LIMITATIONS

Farmingdale State College limits its winter intersession (January) to 4 credits per student. For summer sessions, students may not register for more than 7 credits in either Session A or Session B. The maximum number of credits for which a student may register during the combined terms of the entire Summer Session is 14. Exceptions to these credit limits are few and must be approved by the curriculum Chair or Dean or, in the case of non-matriculated students, the Student Success and Advising Center.

LEAVE OF ABSENCE FOR MILITARY PERSONNEL

The following procedure is for military personnel who interrupt their studies for up to three (3) weeks for military training which is in compliance with US Executive Order 13607. Some courses may not lend themselves to a Leave of Absence. The course of action is to be determined by the faculty member teaching the course.

1. Students identified as US service members or reservists (SMR), must inform the campus' Director of Veterans Services (DVS), as well as their instructors, of such designation during the first week of each semester.
2. SMR students, who are subject to drill schedules, must provide the DVS, as well as their instructors, with a current copy of their drill schedule for the current semester. The drill schedule must be provided during the first week of the semester. If the drill schedule is updated, and the update(s) could potentially interfere with the student's coursework, such updated schedule must also be provided to the DVS and instructors within five business days of receipt of such update.
3. If an SMR student needs to suspend studies due to an active mobilization obligation, such request must be in writing prior to the interruption and addressed to each of their faculty, with copy to the DVS. Such request will only be considered if the SMR student has made satisfactory progress in the course, as determined by the faculty member, prior to the expected interruption. If progress in the course is unsatisfactory, the instructor can suggest several options (e.g. withdrawal, incomplete).
4. Should the training commence at the beginning of the semester, or before classes begin, the Veteran's Advisor will serve as a liaison between student and instructor in order to determine if the course objectives can still be met. If the leave of absence is approved, and occurs prior to the first day of classes, the student will not be marked Non Attended on the Non Attendance Roster.
5. To the degree possible, the student must maintain electronic communication with the instructor in order to make sure that s/he is keeping up to date with assignments while away.
6. The student must make up all missed course work in a time frame agreed upon with the instructor.

WITHDRAWALS

Withdrawal from a Course
A matriculated student who wishes to withdraw from a course should seek the counsel of the curriculum chair. Students wishing to withdraw from a course must obtain a withdrawal form from the Registrar's Office, complete it, obtain the instructor's signature with verification date of last attendance, sign the form, and return it to the Registrar's Office for processing. For assistance contact the Registrar's Office by phone at 924-420-2776 or email at regoffice@farmingdale.edu . Withdrawls are processed on the day they are received either in person, electronically or by fax.

Students who withdraw to enter military service and wish to receive credit for course work or a tuition refund must submit a written request, together with a copy of their orders, to the Registrar's Office.

A grade of "W" will be given to any student who officially withdraws from a course from the beginning of the second week through the end of the ninth week of classes. Withdrawal after the ninth week of classes is permitted only under extenuating circumstances at the discretion of the instructor.

NOTE: Students receiving financial aid for a financial aid period that includes a shortened session, such as a summer session or Intersession, who drop or withdraw from a class/classes in a session and are not currently attending any classes may be required to submit a "Statement of Intent to Return" to maintain their aid for that period. Please consult with the Office of Financial Aid.

Withdrawal from the Current Semester
Any student enrolled in more than one course who wishes to withdraw from every course must initiate the semester withdrawal procedure through the Registrar's Office. Students are first encouraged to discuss semester withdrawal and its potential academic and financial aid consequences with the chair of their department. Then follow this procedure:

- **First week of classes:** This is the add/drop period during which students may withdraw from courses freely.
- **Second week of classes through the last day of classes:** Students must request a Semester Withdrawal Form from the Registrar's Office.
- **After the last day of classes:** Please refer to the section below titled "Retroactive Withdrawal."

Students who do not follow this procedure will remain enrolled in their courses and may receive failing grades for work not completed. In addition, the College will not consider a full or partial refund of fees for any semester in which a student has failed to complete the withdrawal procedure nor will the College release information about a student's academic record until financial clearance is obtained.

Formal readmission to the College following semester withdrawal is only required after an absence of two or more consecutive academic semesters (fall or spring). For more information, please review the section titled "Academic Readmission" in the College Catalog. Be aware that certain academic programs may follow their own guidelines for readmission.

Please note that any student with questions about semester withdrawal or who encounters difficulty completing the process may request assistance by visiting the Registrar's Office in person or contacting the Office by phone at 934-420-2776 or email at regoffice@farmingdale.edu.

Retroactive Withdrawal
Students who wish to apply for withdrawal from a previous semester in which they received a failing grade (F) must apply to the Chair of the Admissions and Academic Standards (AAS) Committee for Retroactive Withdrawal. Retroactive withdrawal, if granted, applies to all courses for the semester in question. Application must be made within one year of the term in question.

Retroactive withdrawal is granted if there are medical issues, serious family situations or other severe extenuating circumstances which prevented a student from attending classes during the semester or completing their academic obligations. It applies to students who did not officially withdraw from their courses or the college in a timely manner due to these circumstances.

Students who apply for retroactive withdrawal must do by submitting an appeal to the Chair of the AASC/Retroactive Withdrawal Committee at AASC@farmingdale.edu explaining their circumstances, and providing documentation of their situation (hospital record, accident report, death certificate, etc.).

If students have been granted Retroactive Withdrawal in any given semester, under some circumstances, they may appeal for a tuition refund outside of the normal refund policy and schedule. Please see the policy of the Extenuating Circumstance Committee outlined below.

Extenuating Circumstance Committee
There are times when medical issues, serious family situations or other similar severe circumstances arise that may prevent a student from attending classes for the remainder of a semester in which they are enrolled. These circumstances may compel a student to withdraw from their classes. SUNY Policy establishes criteria where the student may appeal to the Extenuating Circumstances Committee (ECC) to request a refund which is outside the normal refund policy and schedule.

That criterion includes:

- The circumstance must be of a serious enough nature that would preclude the student from continuing their studies for the semester.
- Application for the refund must be made within one year after the end of the term in question. However, it is advisable for appeals to be filed as soon as possible.
- The student has not completed more than one half of the term. If a student has completed more than one half of the term, the case is not eligible for consideration by the ECC.

- The student must have officially withdrawn from their classes (if the semester is over, this would involve appealing first to the Retroactive Withdrawal Committee).
- The student has not received or will not receive academic credit for the term.

If the circumstance meets all of the above, the student may appeal in writing to the ECC. Along with a letter explaining the circumstances, documentation should be provided which can independently verify the facts presented in the case (doctor's notes, etc.). The ECC can only review written requests and will respond in writing to the student. No information can be given out via email or phone, as per FERPA laws. All decisions of the ECC are final and cannot be appealed elsewhere. Appeals should be sent to: Extenuating Circumstance Committee Farmingdale State College, Farmingdale, NY 11735

POLICY ON NON-ATTENDANCE

Students who do not attend class at least once during the first two weeks of the semester will be removed from the official class roster and receive a "N" notation, for non-attendance, on their academic record for that class.

Non-attendance does not cancel a student's financial liability for the class. In order to remove the liability, the official withdrawal procedure must be followed. Refunds will be calculated according to the schedule in effect at the time of withdrawal.

There may be situations where students who never attend class and do not follow the official withdrawal procedure may be eligible for consideration to have their liability cancelled due to extenuating personal circumstances. In such cases, the student must make a written appeal to the Extenuating Circumstances Committee to have their case evaluated. The Committee reserves the right to assess an Administrative Cancelled Registration Fee for successful appeals if such action is deemed appropriate. This fee is assessed at one half of the tuition per course for each cancellation of liability, up to a maximum of $250 per semester.

FINANCIAL AID ATTENDANCE POLICY

Title IV Programs
Students who fail to attend any classes will be ineligible for Title IV financial aid. Financial Aid eligibility is based on the course load of courses actually attended. If notification of non- attendance in any class is received at any time, the determination of federal financial aid eligibility will be re-evaluated for that term and may result in financial aid forfeiture and/or a balance due to the College.

In addition, the following are circumstances in which a student's Title IV aid will be adjusted/prorated:

- Withdrawal from classes during the first week may affect the awarding of Title IV aid. Students should be aware that their financial aid is based on the number of credits for which the student is registered and attending that apply toward their current academic program at the end of the first week of classes. For example, a student who registers as full-time (12 credits or more) and is packaged as a full time student, and subsequently drops to nine credits during the first week, will have their aid adjusted to 3/4 time status, reflecting the nine credit load.
- Federal regulations require the College to prorate Title IV aid for students who stop attending all classes after the first day of school, up until the 60% point of the semester, generally defined as through the ninth week of classes. This recalculation is based on the formal withdrawal date or the last date of attendance during the semester regardless of whether the student withdrew officially or simply stopped attending classes (unofficial withdrawal).

New York State Programs
State Education Law specifies that students be in full-time attendance as defined by the Commissioner of Education, in order to be eligible for State Sponsored Student Aid. The commissioner has defined full-time attendance as enrollment for 12 or more credits per semester and provided that the student is registered for at least 12 credits required for their program. Students should be aware that repeated courses and/or courses not required for their program do not count towards their full-time status.

TAP Waivers: Students who have not met the state policy for academic progress due to extraordinary circumstances, may apply for a TAP waiver. Applications may be obtained for a TAP waiver from the Office of Financial Aid. This is a state regulated form of appeal, and requires detailed documentation in order to be considered for a one-time waiver for New York State mandated academic guidelines. Please see the state academic guideline chart in the Financial Aid section of this catalog for additional information on State mandated progress. You may submit your application and evidence of the reasons you failed to meet the academic standards mandated by New York State. Applications will be evaluated and a response will be received within two weeks.

TITLE IV RECALCULATION OF FEDERAL AID

Return of Federal (Title IV) Financial Aid
Students who completely withdraw from classes (through successive dropping of courses until they are no longer registered or in a complete withdrawal from all courses at once) are subject to the Return of Title IV refund calculation as dictated by federal regulations.

NOTE: Students who partially withdraw from courses for the term are not subject to a return of their federal aid but should be aware that their financial aid eligibility may be recalculated.

Determination of Federal Aid Earned
Earned aid is determined based on the number of calendar days the student attended classes divided by the total number of calendar days in the term. The result is a percentage of federal aid funds that the student is entitled to keep. For example, a student who attends 30% of the term has earned 30% of the total aid. If the student attended classes through 60% or more of the term, the percentage of federal aid earned is 100%.

Return of Unearned Federal Aid
The total federal aid disbursed at the point of withdrawal less the earned amount constitutes the unearned aid that must be returned to the federal government. If it is determined that the student has received excess funds, the College must return a portion of the excess equal to the lesser of the student's institutional charges multiplied by the unearned percentage of funds, or the entire amount of the excess funds.

The College will allocate the return of unearned aid in the following order:

1. Federal Unsubsidized Loan
2. Federal Subsidized Loan
3. Federal Parent or Graduate PLUS Loan
4. Federal Pell Grant
5. Federal SEOG

Return of Title IV federal funds may result in the student owing the College. If a balance due is created, a registration block will prevent future registration until it is paid.

PLACEMENT FOR ENGLISH AND MATHEMATICS

The Center for Academic Success and Tutoring (CAST) oversees placement for English and Mathematics. Incoming first-year students and transfer students with no previous college coursework in English or Math must complete an assessment based on specific criteria.

English: Students who are eligible for the English assessment must complete this assessment prior to registering for EGL 101 or EGL 101E. Assessments are offered during fall, winter, spring, and summer terms.

Eligibility:

- Students who received between 71-82 on the New York State English Language Arts (ELA) Regents.
- Students who received a Special Appeal (SA), or Exemption (E) on the NYS ELA Regents.
- Students who graduated from high school outside of New York State.
- Students with no previous college credits in EGL 101 or advanced placement credits.

Mathematics: There are several math courses available to students based on academic major and degree requirements. Students who are eligible for the Math Assessment must complete this assessment prior to registering for a math course.

Eligibility:

- Students with a New York State Common Core Algebra I Regents below 70.

- Students who received a Special Appeal (SA), or Exemption (E) on the NYS ELA Regents.
- Students who graduated from high school five or more years prior to the time of application.
- Students who graduated from high school outside of New York State or a transfer student with no high school transcript and/or previous college coursework/advanced placement credits.
- Students with a Math Placement Level of 2 or higher and is recommended by their academic advisor.

Math Placement Levels

Math Placement Level	NYS Regents Exam Score, High School Course, and/or Previous College Course	Prerequisite satisfied for entry into:
MP 4	Precalculus (high school) grade of 70 or higher FSC MTH 117 – Precalculus with Applications or MTH 129 – Precalculus	MTH130: Calculus I with Applications or MTH150: Calculus 1
MP 3	NYS Common Core Algebra II Regents score of 70 or higher NYS Algebra2/Trig Regents score of 70 or higher FSC MTH 116 – College Algebra	MTH 117: Precalculus with Applications or MTH 129: Precalculus
MP 2	NYS Common Core Algebra I Regents score of 70 or higher NYS Integrated Algebra Regents Score of 70 higher FSC MTH 015 – Elements of Algebra	MTH 102: Elementary Discrete Mathematical Models MTH 103: Sets, Probability & Logic MTH 107: Introduction to Mathematical Ideas MTH 110: Statistics MTH116: College Algebra
MP 1	None	MTH 015: Elements of Algebra (noncredit) MTH 110R: Statistics MTH 116R: College Algebra

For additional information, contact:

The Center for Academic Success and Tutoring
Greenley Library, 302
Tel: 934-420-2066
Website: https://www.farmingdale.edu/placement-testing

STANDARDIZED TESTING

A student can obtain college credit by successfully passing standardized tests such as the College Proficiency Examination Program (CPEP), the College Level Proficiency Program (CLEP) and the Defense Activity for Non-Traditional Education Support (DANTES; formerly USAFI). Credit can be obtained in subject areas and for general examination with departmental approval. The student may also receive advanced standing and/or credit for any specific courses (if applicable) taken through the Advanced Placement Program. For further information about these programs and their applicability to the programs at this College, please email tsr@farmingdale.edu.

ASSIGNMENT OF CREDIT HOURS

As part of the State University of New York, Farmingdale State College abides by the Credit/Contact Hour Policy (document number 1305) of the State University of New York. The primary academic measure used throughout the University System is "semester credit hour". In accordance with the SUNY Policy, the semester credit hour has been defined as one 50 minute session of instruction per week including two hours of out-of-class preparation by the student for a semester of not less than fifteen weeks. This basic measure may be adjusted proportionately to reflect modified academic calendars and formats of study. On-line, hybrid courses and other formats of learning should contain the same amount of instruction as provided in a traditional setting and in accordance with the credits assigned. View the FSC Assignment of Credit Hours Policy for further information.

PRIOR LEARNING ASSESSMENT

Matriculated students may apply for Prior Learning Assessment (PLA) toward fulfillment of degree requirements at Farmingdale State College. The current college policy regarding Prior Learning Assessment is available here.

The four major categories of credit awarded by Prior Learning Assessment, and the procedures for seeking such credit in each category, are the following:

1. Standardized published examinations, including Advanced Placement (AP), International Baccalaureate (IB), College-Level Examination Program Subject Examinations CLEP) , and others. To seek Prior Learning Assessment credit for a score on one of these published examinations, the student must request submission of that score by the sponsoring organization directly to Farmingdale Admissions. The number of credits awarded for a given score is based on the recommendation of the faculty. There is no fee for processing such a submission.
2. Military education and corporate training evaluated by organizations such as the American Council on Education (ACE), National College Credit Recommendation Service (NCCRS), and the Council for Adult and Experiential Learning (CAEL). To seek Prior Learning Assessment credit for such training, the student must request the submission of the evaluation of their training by such an organization directly to Farmingdale Admissions. The number of credits awarded for a given evaluation is based on the recommendation of the faculty. There is no fee for processing such a submission.
3. Industry certifications and apprenticeships, based on faculty review of the learning outcomes achieved through participation in such programs. To seek Prior Learning Assessment of the learning outcomes that were achieved in such a program, the student must submit an application and pay the fee as described below for the campus-based evaluation.
4. Evaluation of the achievement of learning outcomes by the student based on a portfolio review by college faculty, or by means of a challenge exam which is developed, administered, and scored by college faculty. To seek Prior Learning Assessment of the learning outcomes that were evaluated by one of these measures, the student must submit an application and pay the fee as described below for the campus-based evaluation.

To apply for Prior Learning Assessment by a campus-based evaluation of industry certifications and apprenticeships, by a portfolio review, or by the administration of a challenge exam (#3 and #4 above), the student will be required to complete, sign, and submit the application for this purpose to the Department Chair of their curriculum for approval. A fillable pdf of this application form is available on the Registrar's website The completed form should be submitted to the Department Chair as an email attachment.

Upon approval of the application by the Department Chair, the student is expected to pay the current processing fee through Student Accounts. This fee represents the cost to the college for performing this evaluation, and is not related to the number of credits sought by this process. For information regarding a waiver of this fee, please refer to the college policy on the waiver of fees.

Upon the completion of the Prior Learning Assessment by a campus-based evaluation as described above, the student will be informed whether or not college credits are to be awarded based on the recommendation of the faculty. If a student wishes to appeal the recommendation of the faculty regarding the awarding of credits, they would need to follow the Grade Grievance Procedure that is described elsewhere in this catalog.

Some important points the student should be aware of regarding credit awarded by Prior Learning Assessment:

1. Credits awarded by means of Prior Learning Assessment shall be considered full college credits and need not be made up by other courses. However, such credits are treated the same as transfer credits, not credits earned in residence at the college, therefore they do not count toward the minimum credits in residence that are required for awarding of a Farmingdale State College degree or certificate, and no Achievement Points shall be awarded for such credits.
2. Students whose financial aid award (including the Excelsior Scholarship) depends on full-time enrollment at the college should consult with the Financial Aid office regarding the possible impact of credits awarded through Prior Learning Assessment on that eligibility.
3. Credits awarded by Prior Learning Assessment cannot be counted toward fulfillment of any specialized degree requirements that must be satisfied in residence, and which therefore cannot be satisfied by any externally generated credits including transfer credits from another institution. Any such specialized degree requirements will be designated by the faculty of each academic program and communicated in their catalog curriculum display. Finally, such credits cannot be used to receive credit for a course in which the student is enrolled or has previously earned credit.

TRANSFER CREDIT EVALUATION PROCESS

Transfer students must meet curriculum entrance requirements. Official transcripts from all previously attended institutions must be sent to the Admissions Office in order to begin the transfer credit evaluation process. All courses regardless of their mode of delivery will be considered for transfer credit including on-line, hybrid, web enhanced, accelerated, interactive television (ITV) and independent study courses. Any earned degrees must be specifically noted on the transcript.

In addition to courses accepted by Farmingdale State College, students are required to complete the specific requirements of their major and of the College.

1. Accreditation. Courses taken at regionally accredited institutions are more likely to be accepted; credits taken at other institutions will be evaluated on a case-by-case basis.
2. Grades. As a general rule, courses with a grade of C or better will be considered for transfer. However, many majors require a C+ or better in order for a course to satisfy a major requirement. If a course is transferred in with a C, the student will get the credits but the transfer course will not satisfy the requirement of the major and the course may have to be repeated. Most AP tests require a score of 3 or higher.
3. Credit Value. Credits not expressed in semester hours (such as quarter or trimester hours) are factored to give semester hour equivalents. This means that a similar course may not be accepted as equal to one given at Farmingdale College.
4. Transfer Students with Associate Degrees. Students who have earned an associate degree and are admitted to the college are generally awarded full transfer credit for their associate degree coursework. The specific number of credits required for graduation will be determined by the number of courses the student needs to successfully complete to meet the requirements of the College and the major.
5. Transfer Students without Associate Degrees. Credits are awarded on a course-by-course basis.
6. Curriculum Requirements. Only courses required to complete requirements or electives of the major will count toward completion of the major and graduation.
7. Grade Point Average. Farmingdale State College requires that students earn a grade point average of 2.0 or higher to graduate.

For further information on the transfer credit evaluation process, contact the Office of Transfer Services at 934-420-5446.

MILITARY TRANSFER CREDITS

Military credits may be granted on a case-by-case basis based upon review of a Military Smart transcript.

TRANSFER CREDIT APPEAL PROCESS

In the event that a student would like to challenge the evaluation of their transfer credits from other colleges and universities into Farmingdale State College, the following appeal process may be followed.

All appeals should include your name, Ram ID #, and a clear explanation as to why you believe the initial response was inappropriate. Any information or evidence provided to justify that the course credit should be transferred would assist in the appeal process. Examples of support include a comparison of topics covered, credit hours, lab hours, sample course syllabi or other material indicating the courses are comparable.

Appeals are to be addressed to chairperson of the Admissions and Academic Standards Committee, Farmingdale State College, State University of New York, 2350 Broadhollow Road, Farmingdale, NY 11735.

COURSE APPLICABILITY TO DEGREE REQUIREMENTS

To assure viability with current technology, a Curriculum Department Chair may evaluate the suitability and timeliness of all curriculum courses, and whether they will satisfy degree and/ or certificate program requirements.

RESIDENCY REQUIREMENT

Candidates for a baccalaureate degree must complete a minimum of 30 of the last 60 credits at the college, with 15 of those credits in the major. At least 9 of the 15 major credits must be taken at the 300/400 level. Associate degree candidates must complete 15 credits of the last 30 credits, and certificate programs require 25% of the course requirements to be taken in residence.

Any exceptions to the final degree credit requirement are at the discretion of the program chair in consultation with their Dean.

Credits earned through approved study abroad or exchange programs may count toward satisfaction of the residency requirements. However, credits earned through advanced standing (e.g., credit by evaluation, advanced placement, etc.) do not fulfill the minimum residency requirements.

EARLY WARNING SYSTEM

In keeping with the College's concern that all students be afforded every opportunity to reach their maximum potential, students are notified early each semester if their progress is less than a "C." This early warning allows students sufficient time to meet with an advisor and develop a course of action aimed at improving their grades. A variety of support systems are available to assist students as they move toward the completion of their academic goals.

POLICY FOR REPEATING COURSES (FAILING GRADES, MINIMUM REQUIRED GRADES, NON-ATTENDANCE, WITHDRAWALS)

A student must successfully complete all academic requirements before the College will confer a degree. In cases where a requirement may not be fulfilled with an approved equivalent course, the same course must be repeated to replace a grade that: 1) is failing ("F"), 2) falls below the minimum required by the College or program, 3) indicates non-attendance ("N"), or 4) indicates withdrawal ("W" and "UW").

Students may repeat the same course once (total of two attempts). Additional repeats of the same course may only be authorized by the chairperson of the student's program. Students who do not achieve a satisfactory grade on their second attempt may be subject to removal from certain programs. For more information before repeating a course, students are strongly encouraged to speak with a program advisor or the Student Success and Advising Center (934-420-5160 or email advisement@farmingdale.edu).

Please note that both achievement points and credits for all course attempts completed at the College will be applied to the degree. The most recent grade earned for a repeated course becomes the official grade for

that course. For repeated courses completed at other institutions, only credits and not achievement points will be applied to the degree.

NOTE: A student's financial aid may be affected when repeating courses. For New York State, repeated courses for a previously failed course may be counted in a student's course load until the course is passed. For federal financial aid, it may be counted one additional time if taken to improve a previously passed grade. However, all attempts at passing the course are counted as attempted credits which may affect Pace of Progress (cumulative hours earned divided by cumulative hours attempted). Please refer to the Academic Standard for Federal Financial Aid and the EOP funding chart found under "Satisfactory Academic Progress for Financial Aid." The Financial Aid Office should be consulted for advice in these cases rather than your academic department. Please note that the regulations for New York State and other aid programs may differ.

REPEATING OTHER COURSES

Normally, a student is not permitted to repeat a course they have completed and for which they have earned a passing grade. In rare instances, a student may have special reason to repeat a passed course. In such cases, a student must have written approval of the Department Chair if a course is to be repeated in order to raise a grade. The most recent grade in the course becomes the official grade for the course. It is the student's responsibility to ensure that they are not unnecessarily repeating a course they have already received credit for.

NOTE: A student's financial aid may be affected when repeating courses, as repeated courses may not be counted in a student's course load for financial aid purposes. Repeated courses for a previously passed course can only be counted once in the student's course load. Please seek the advice of the Office of Financial Aid before consulting with your department chair. State and other program regulations may differ.

CHANGE OF GRADE

Grades and grade changes are the responsibility of faculty. Grade changes must be submitted within a timely manner after the conclusion of the semester in question. Appropriate documentation with a clear explanation must be submitted on the approved grade change form for processing with the Registrar. Faculty may submit a grade change within one year from the date on which the grade was issued as long as it is consistent with the College's need to maintain academic standards and the integrity of students records, as well as conform to Federal and State laws. Only an extreme extenuating circumstance (eg., service to the military) may require a change of grade beyond this one year time period. Any such case must be appealed by the instructor to the Faculty Standing Committee on Admissions and Academic Standards for their consultation and approval.

GRADE GRIEVANCE PROCEDURE

The following procedures serve as a structured mechanism to allow a group of faculty and students within the college community to review a given situation and to arrive at a fair and equitable resolution of the dispute. All official communications about grade appeals are to be sent to students by certified mail with a return receipt or by another written or electronic method for which delivery confirmation is available.

Step 1: A student who contests a grade recorded on the transcript must first discuss the grade with the instructor. This step must be initiated no later than 30 calendar days from the beginning of the next regular fall or spring semester following posting of the grade. For grades posted during other academic terms, such as January intersession, summer sessions, or 7-week terms, the 30-day window begins at the start of the next regular fall or spring semester. All grade grievances must be based solely on requirements listed on the instructor's syllabus, or the most recent college catalog, or a grade calculation (math) error.

Step 2: If no mutually satisfactory agreement can be reached with the instructor:

- The student should submit to the instructor's department chairperson* or designated representative, a written statement of the grievances, within seven (7) calendar days of the completion of Step 1. Before any review can be undertaken by the department chairperson, the student shall submit records of evaluations, tests, term papers, projects, and/or any other information from which judgments can be or were made. It is expected that in support of this process, the instructor will provide copies of all appropriate materials.
- The chairperson shall, within fourteen (14) calendar days of the submission of the grievance, communicate with each party to discuss the problem and collect evidence.
- The chairperson shall submit a written recommendation to both parties within seven (7) calendar days. Copies of such recommendation shall be maintained by the chairperson.
- If the chairperson is party to the grievance, the highest ranking senior member of the department shall act in the chairperson's stead.

*Note: The role of the department chairperson may be superseded by a departmental review committee if the department deems it desirable.

Step 3: If no mutually satisfactory agreement has been reached at the completion of the Step 2 process, either party may submit a written statement of appeal with supportive information to the chairperson of the Admissions and Academic Standards Committee. Such appeal must be submitted within fourteen (14) calendar days after receipt of the decision of the department chairperson or representative.

Within twenty-one (21) calendar days after receipt of the written appeal, the chairperson of the Admissions and Academic Standards Committee shall convene and chair a campus appeals committee.

The Campus Appeals Committee shall consist of:

1. The chairperson of the Admissions and Academic Standards Committee, or a member of that committee assigned by the chairperson.
2. The chairperson of the Faculty Executive Committee, or a member of that committee assigned by the chairperson.
3. An academic dean, assigned by the Provost, from a school other than that in which the grievance occurred.
4. The chairperson of the appropriate student governing body of SGA or a member of that body assigned by the chairperson.

- No member of the committee shall be a member of the department in which the grievance occurred.
- The department chairperson or representative shall make available to members of the Campus Appeals Committee all information relating to the grievance.
- The Campus Appeals Committee shall attempt to ascertain all pertinent information. Either party may request or be requested to appear before the committee.
- The committee shall present its written recommendations to each party of the grievance within fourteen (14) calendar days of the completion of the review. These recommendations could include.
    1. No change in the original grade.
    2. A request for the instructor to reevaluate the original grade. If a reevaluation is requested, the instructor shall have fourteen (14) calendar days to submit a response to the committee.
    3. Credit-by-Examination with fee waived.

Step 4: If the instructor's response or reevaluation is contrary to the consensus of the Campus Appeals Committee, the Committee shall refer the issue to the Admissions and Academic Standards Committee for review with their recommendation whether and how the grade should be revised. The AAS Committee, after review, may authorize that the student's grade be changed. The Committee will determine the final grade to be assigned, after a majority vote of the Committee, at the next scheduled AAS Committee meeting. This decision will be final. Any member of the Campus Appeals Committee that is part of AAS Committee should be excused from the discussion and the voting process. The AAS Committee will inform all parties of the disposition of the case, including the student, in writing.

A written record of the appeal, the Committee's recommendations, and the disposition of the case, shall be kept on file in the Office of the Provost, the Dean of the School in which the grievance occurred, and the academic department.

INCOMPLETES

A grade of "I" (Incomplete) is reported when, for some reason beyond their control, the student misses the final examination or has not completed a portion of the required work for the course. The decision to grant an "I" is at the sole discretion of the instructor. No achievement points are awarded for an incomplete. All incompletes must be resolved and a change of grade must be submitted no later than 30 days after the beginning of the next semester (fall to spring, winter intersession to spring, spring to fall, summer session to fall). An instructor may grant an extension of an incomplete (I) grade until the end of the semester by documenting and filing the approved

form with the Registrar prior to the conclusion of the 30 day period. Any incomplete (I) grade not finalized or not extended by the instructor within the 30 day time period mentioned above will automatically be changed to an "F." An Incomplete does not constitute successful completion of a prerequisite.

COMPUTER LITERACY REQUIREMENT

To meet the diverse needs of its programs, and in the spirit of providing a liberal education to all students, the college requires the use of the computer be integrated into each curriculum.

REQUIREMENTS FOR GRADUATION

1. Recommendation of the faculty.
2. Satisfactory completion of the minimum number of credits required by the specific major.
3. Satisfactory completion of dual major or academic minor (if pursuing either) requirements must be completed at the same time as graduation certification of the major.
4. A 2.0 cumulative achievement average.
5. Students must satisfactorily complete all General Education requirements, including EGL 101 and EGL 102 with grades of C or better, a Writing Intensive course with a grade of C or better, and an Applied Learning experience. Please refer to your academic program for specific EGL requirements.
6. Beginning with the Fall 2024 semester, all students entering Farmingdale State College as first-time, full-time students with no prior college attendance are required to successfully complete FYE 101 First Year Experience.
7. All outstanding incomplete grades must be resolved; degree is awarded in the term the grade is finalized (Fall, Spring or Summer semesters).

For additional information please refer to the General Education requirements section of this catalog.

PROCEDURE FOR DEGREE CANDIDATES

Student "Intent-to-Graduate" applications must be received in the Registrar's Office no later than eight weeks prior to the intended date of graduation. Students failing to file by the deadline cannot be considered for graduation scholarships and achievement awards. In addition, such students will not be listed in the Commencement program, nor will they receive information regarding graduation activities. To complete an Intent to Graduate application, please visit the Registrar's webpage.

COMMENCEMENT CEREMONY ATTENDANCE POLICY

Students graduating in the Fall, Winter, Spring, or Summer term will participate in the Spring Commencement Ceremony.

Commencement dates can be found on the Academic Calendar.

Additional information about the ceremonies can be found on the Commencement page.

AMNESTY POLICY

The Amnesty Policy applies to returning students who have not attended any college on either a full-time, part-time, matriculated, or non-matriculated basis for a minimum period of four years immediately prior to reentry to Farmingdale, and the student's GPA must be below 2.0. Under amnesty, all prior grades will be excluded from subsequent GPA calculations but will remain on the student's transcript along with all previous coursework. The GPA will begin at the time that studies are resumed.

Courses in which grades of C or better were earned will be counted towards graduation.

To qualify for amnesty the student must be matriculated and have completed six credits per semester for two consecutive semesters excluding winter and summer sessions, upon returning to the college, maintaining a B average during this time with no grade below a C.

The recomputed GPA under this amnesty policy cannot be used to qualify for any academic honors other than that of the Dean's or President's lists, and an application for amnesty can be made only once. The student must file a formal petition, as follows, in order for amnesty to be considered:

After the student has met the requirements for eligibility under amnesty as stated above, the student will file an application with the chair of the Admissions and Academic Standards Committee at least one semester prior to graduation. Upon verification of the student's eligibility under amnesty, the Chair of AAS will so notify the registrar.

The above policy will not supersede the College's Admissions Policies, specific Curriculum Department requirements, or financial aid guidelines.

GUIDELINES FOR AWARDING TWO DEGREES CONCURRENTLY OR CONSECUTIVELY

A student who desires to create a varied educational background may do so by seeking to graduate with two significantly different degrees (Dual Degrees) or to major in two disciplines at the same level of degree (Dual Majors). Students interested in these opportunities are directed to the following descriptions and guidelines.

Dual Degrees
Under certain circumstances, a student may pursue a second degree of the same level either concurrently or consecutively. A student seeking to earn two degrees must meet the admission requirements of both degree areas as listed in the College catalog and must receive advisement from the academic department responsible for the second discipline. Further, these programs must lead to two significantly different academic objectives. Once accepted, the student must satisfactorily complete the program requirements of both degrees, the resident credit requirement and the general education core requirements. At a minimum, an additional 30 credit hours must be completed in the second degree area which are significantly different from the first degree.

- Students seeking to earn two degrees must seek advisement from the Department Chair of the second degree.
- Students completing a dual degree must file an "Intent to graduate" form for BOTH degrees in order to receive two separate diplomas.

Dual Majors
A student wishing to major in two disciplines at the same degree level (i.e., associate or baccalaureate) concurrently would be awarded a single degree based on the primary major. The student must meet all the admission requirements for both majors as listed in the College catalog and must receive advisement in the second area from the academic department responsible for the second discipline. The student must complete all major, resident credit and general education core requirements of the primary major. Once accepted, the student must meet the course requirements of the second major as defined by that academic department. Both majors will be listed on the official transcript and diploma. Note: The dual major option may not apply to all curricula.

Students seeking to earn two majors must seek advisement from the Department Chair of the second major.

ACADEMIC MINORS

Farmingdale State College students are invited to enhance their studies with an "Academic Minor." A minor is a cluster of thematically related courses drawn from one or more departments. In addition to department based minors (e.g. computer programming & info systems), interdisciplinary minors are also available (e.g. legal studies).

Academic minors are approved by the College-Wide Curriculum Committee and the Provost. Students must make application for an academic minor through the department offering the minor in conjunction with the Registrar's Office Specific course work must be determined in consultation with a faculty member in the department offering the minor. A statement of successful completion of the academic minor will appear on the student's transcript at the time of graduation.

The following requirements must be satisfied for approval of the minor:

- A minor is considered to be an optional supplement to a student's major program of study
- Completion of a minor is not a graduation requirement and is subject to the availability of the courses selected. However, if the requirements for a minor are not completed prior to certification of graduation in the major, it will be assumed that the minor has been dropped. Consequently, the student will only be certified for graduation in their primary major.
- Only students in 4 year baccalaureate programs can apply for a minor.
- A minor should consist of 15 to 21 credits.
- At least 12 credits must be in courses at the 200 level or higher.
- At least 9 credits must be residency credits.
- Specific requirements for each minor are determined by the department granting the minor.
- Students must maintain a minimum cumulative GPA of at least 2.0 in their minor. Some minors may require a higher GPA.
- Students are prohibited from declaring a minor in the same discipline as their major (e.g. one cannot combine an applied math minor with an applied math major). Academic minors may not apply to all curricula.
- Students are permitted to double-count courses.
- Students are only permitted to take more than one minor with appropriate written approval of their department chair or curriculum Dean.

VALEDICTORIAN AWARD

The College shall recognize one student as valedictorian for each of its annual Commencement ceremonies. The standards for selection are as follows:

1. Must be a potential candidate for graduation
2. Must be in a 4-year program
3. Must currently have a 3.90 GPA or higher
4. Transfer students must have no more than 48 transfer credits
5. Good Standing and no pending restrictions

Additionally, to be considered for this award, the student shall have achieved an outstanding academic record along with notable service to the College and/or the community. Potential graduates in the fall or winter must complete degree requirements at the end of the respective semester. Potential graduates in the Spring and subsequent summer semesters must complete degree requirements by the end of each respective semester.

THE DEAN'S LIST AND PRESIDENT'S LIST

Full-Time Students
The Dean's List is an indicator of high academic achievement earned by full-time matriculated students who obtain an average of 3.30 or better. The President's List recognizes full-time, matriculated students who distinguish themselves by attaining an average of 3.75 or higher. Students who have failures, incompletes, or "D, D+, W, UW or NA" grades are ineligible for Dean's List or President's List designation. The Dean's and President's lists are finalized by the Registrar's Office once all grades are entered and calculated at the end of each semester, and are entered on the student's permanent record.

Part-Time Students
Dean's or President's List candidates can also be currently enrolled part-time students who apply and are accepted for matriculation into a degree program and have completed a minimum of eighteen (18) credits in a maximum of three (3) consecutive semesters. The summer session will be considered a semester for this purpose. They must also have earned an average of either 3.30 or 3.75 or better.

No failing, incomplete, "D, D+, W, UW or NA" grades are allowed during the period of consideration. A semester consisting of all "W" grades counts as a semester and will eliminate a student from consideration for either list. Normally, three consecutive semesters involve fall and spring semesters. However, if a summer session is taken, it is then calculated within the consecutive semester's evaluation.

LATIN HONORS - DEGREES OF DISTINCTION

Degrees of distinction are conferred upon candidates for the baccalaureate degree who meet the College residency requirement (the last 30 credits must be residence credits) and achieve the GPA standards below. The College recognizes these potential distinctions during commencement exercises every semester. The official distinction will be documented on the student's record once final grades/graduation evaluations have been completed in the semester for which the student applied for graduation. Latin honors will also be documented on the student's diploma.

Achievement standards for Latin Honors are:

- **Summa cum laude:** 3.90 or higher
- **Magna cum laude:** 3.70 or higher
- **Cum laude:** 3.50 or higher

STUDENT AWARDS FOR ACADEMIC EXCELLENCE

Each semester FSC bestows "Awards for Academic Excellence" on students in each major/minor who have been selected by their faculty as truly outstanding. The primary consideration for selection is the student's overall grade point average in coursework completed at Farmingdale. Additional consideration is given to exceptional performance in areas including research, internships, special student projects, and contribution to departmental clubs and honor societies. Students eligible for this award are those who have completed the requirements to receive the Student Award for Academic Excellence within the 12 month period prior to Commencement. A minimum average of 3.20 is required. The students must be in good standing at the College and have no pending restrictions on their records.

HONOR SOCIETIES

Alpha Alpha Alpha (Tri-Alpha)
Alpha Alpha Alpha (Tri-Alpha) is a national honor society dedicated to recognizing and supporting First-Generation College Students (FGCS). Its mission is to celebrate academic excellence, foster a supportive community, develop leadership skills, and promote service among first-generation scholars. Mu Zeta, the local chapter at Farmingdale State College, was chartered on April 21, 2025.

To be eligible for membership, students must have an overall undergraduate GPA of at least 3.2 and have earned a minimum of 30 credits toward an Associate or Baccalaureate degree. Additionally, neither parent, step-parent, nor guardian may hold a Bachelor's degree.

For more information, please go to: www.1stgenhonors.org

Alpha Phi Sigma
Alpha Phi Sigma is the only National Criminal Justice Honor Society for Criminal Justice majors. The society recognizes academic excellence of undergraduate, graduate students of criminal justice, as well as juris doctorate students. Students at Farmingdale must have declared the Criminal Justice and/or Security Systems bachelor program as their major, have a minimum cumulative grade point average of 3.2, and a minimum criminal justice grade point average of 3.2. Additionally, students must have completed at least 36 credits, and of those, 16 credits would be criminal justice courses. Students must be within the top 35% of their class.

For more information, please go to: www.alphaphisigma.org

Beta Beta Beta
Beta Beta Beta (Tri-Beta) is a National Honor Society in Biology. Tri-Beta is dedicated to improving the understanding and appreciation of biological study and extending boundaries of human knowledge through scientific research. The Society strives to cultivate intellectual interest in the natural sciences and to promote a better appreciation of the value of biological study. The Farmingdale Chapter, Chi Delta Eta, was established in 2015. Chapter programs include guest speakers, reports of research by members and faculty, field trips, community service, and social gatherings.

To be eligible for membership consideration, students must have a minimum GPA of 3.2 in Bioscience or a related discipline. For more information, please visit www.tri-beta.org.

Chi Alpha Epsilon
Chi Alpha Epsilon is a national honor society dedicated to recognizing the academic achievements of students admitted to colleges and universities through non-traditional criteria. Its purpose is to promote continued high academic standards, foster increased communication among members, and honor the academic excellence of those students admitted to college via developmental programs. Gamma Eta is the local chapter chartered at Farmingdale State College on December 6, 2001. To be eligible for

membership consideration, students must hold a minimum cumulative grade point average of 3.0 for two (2) consecutive, full-time semesters and have been admitted to Farmingdale State College through the Educational Opportunity Program. National link: www.chialphaepsilon.org.

Applications may be obtained from the Educational Opportunity Program office.

Chi Gamma chapter of Sigma Theta Tau International (STTI) the Honor Society of Nursing
The Chi Gamma chapter of STTI at Farmingdale State College supports the mission and vision of the parent organization to celebrate nursing excellence in scholarship, leadership, and service. The Chi Gamma chapter works to develop a community of nurses dedicated to making a difference in health locally, through regional activity, and global networking.

Membership is by invitation to baccalaureate nursing students who demonstrate excellence in scholarship and service. Students enrolled in the baccalaureate program who have completed one-half of the nursing curriculum and are within the upper 35% of their class are eligible. Students need faculty recommendation to complete the application.

In addition, nurse leaders outside the Farmingdale community who have earned at least a baccalaureate degree are eligible for membership in the Chi Gamma chapter.

The STTI link is www.nursingsociety.org.

Epsilon Pi Tau
An international honor society for professions in technology, Epsilon Pi Tau recognizes academic excellence of students in fields devoted to the study of technology and the preparation of practitioners for the technology professions. In addition to a recognition program that extends through members' careers and beyond, Epsilon Pi Tau continually seeks to serve, support, and strengthen the technology professions through publications, conferences, thought leadership, and alliances with corporations, professional associations, government agencies, and non-governmental organizations. To be eligible for consideration, students must meet criteria as established by the honor society. Information may be obtained at www.epsilonpitau.org.

Applications for membership will be mailed to eligible students, which is sponsored by the Dean's Office, Pasternack School of Engineering Technology.

Golden Key
Golden Key is a mission-focused, values-based and demographics-driven organization. With 30 years of rich tradition, Golden Key remains committed to scholarship, career development, leadership and service. Our mission defines who we are; our core values provide us guidance in executing our activities; and our history reminds us that nearly two million members are counting on us to shape the future through our strategic planning process.

To be eligible for consideration, students must meet criteria as established by the honor society. Information may be obtained at www.goldenkey.org. Applications will be mailed to eligible students.

Lambda Pi Eta
Lambda Pi Eta is the honor society of the National Communication Association for four-year institutions of higher education. Lambda Pi Eta represents the first letters of what Aristotle described in Rhetoric as the three modes of persuasion: logos, pathos, and ethos. The official colors of Lambda Pi Eta are crimson to represent the Communication discipline and silver in recognition of speech and oratory skills. The purpose of the honor society is to promote outstanding academic achievement in the Communication discipline. To be eligible for membership, undergraduate students must have completed 60 semester credit hours, have a minimum overall cumulative GPA of 3.0 and rank within the top 35% of their class in the major, have completed at least 12 semester credit hours in Communications studies with a GPA of at least 3.25, and be enrolled in good standing.

Omicron Delta Epsilon
Omicron Delta Epsilon (ODE) is an International Honor Society in Economics. Its objectives are: (1) to confer distinction for high scholastic achievement in economics; (2) to stimulate and promote student interest in all aspects of economics; (3) to publish an official journal to be entitled "The American Economist"; and (4) to sponsor the Fisher-Taussig Award Competitions. Membership is opened to students who satisfy the following criteria: (1) in residence at least one semester, with a major or minor in economics; (2) twelve semester (term) hours of economics, and (3) an average of B or better and a class standing in the upper one-third. Application forms are available at the Department of Economics.

Phi Alpha Theta
Phi Alpha Theta is the National History Honor Society that recognizes academic distinction for students interested in the field of history. Less than 1% of students attending the college qualify for membership in this society. The mission of Phi Alpha Theta is to promote the study of history through the encouragement of research, good teaching, publication and the exchange of learning and ideas. We bring students and faculty together for intellectual and social exchanges that promote research, presentations and publications by our members in a variety of ways. The faculty officer will invite students who have a GPA of 3.0 overall and have completed four history courses with a GPA of 3.1 to join Alpha-Omicron-Iota, the Farmingdale chapter of Phi Alpha Theta. Application forms are available at the Department of History, Politics, and Geography.

Psi Chi
Psi Chi is the International Honor Society in Psychology, founded in 1929 for the purposes of encouraging, stimulating, and maintaining excellence in scholarship, and advancing the science of psychology. Psi Chi is the oldest surviving student organization in psychology. Psi Chi sponsors student paper readings at regional and national meetings; presents programs at regional and national meetings; presents graduate, undergraduate, chapter, and faculty awards; and publishes a quarterly newsletter. Each year, through its local chapters, Psi Chi is responsible for hundreds of other academic activities, social functions, and acts of community service among its student members. The Farmingdale Chapter was established in 2011. To become a member of Psi Chi students must be registered in the Applied Psychology program; have second- semester, Sophomore status; have completed 9 semester hours in Psychology; have a minimum GPA of 3.0 and be ranked in the top 35% of their overall class.

For more information, please go to: www.psichi.org. Applications can be completed online. Acceptance/induction occurs in the spring semester only.

Sigma Beta Delta
The purpose of Sigma Beta Delta is to encourage and recognize scholarship and achievement among students of business, management and administration, and to encourage and promote personal and professional improvement and a life distinguished by honorable service to humankind. To be eligible for membership, a business management, business computer systems and sport management student must rank in the upper 20 percent of the junior or senior class, have earned 30 credits at the college and be invited to membership by the faculty officers. Faculty officers operate the Sigma Beta Delta chapter for the mutual benefit of students. Farmingdale State College's Business Management Bachelor of Science degree sponsors a chapter of Sigma Beta Delta.

National link: www.sigmabetadelta.org.

Sigma Phi Alpha
Sigma Phi Alpha is a National Dental Hygiene Honor Society that promotes and recognizes scholarship, service, and leadership among students and graduates of dental hygiene educational programs. The local component chapter at Farmingdale State College is Alpha Mu. To be eligible for membership, students must rank within the top 10 percent of either the sophomore class for the Associate Degree or the senior class for the Bachelor Degree. Membership in the society is offered by the faculty officers of the society.

Sword & Shield
The Order of the Sword & Shield National Honor Society is the largest and most respected organization representing the Homeland Security, Intelligence, Emergency Management, Cyber and Information Security, and all Protective Security disciplines. Students at Farmingdale State College must have declared the Criminal Justice and/or Security Systems bachelor program as their major and have a minimum cumulative grade point average of 3.25. Additionally, students must have completed half of the credits required for their major, and of those, hald of the credits must be in criminal justice courses. Students must be within the top 20% of their class. For more information, please visit www.securityhonorsociety.org/

GRADES AND TRANSCRIPTS

Approximately two weeks after the end of each semester, grades are posted on students' records. Students are expected to view their grades online via OASIS. Those with an outstanding financial obligation to the College will

not be able to access their grades until the financial obligation has been satisfied (for details contact the Student Accounts Office).

Farmingdale State College has partnered with Parchment to accept online transcript orders. You can order your official transcripts 24 hours a day, 7 days a week. Transcripts can be sent electronically or mailed in hard copy, depending on the receiving institution or destination. You will receive an e-mail communication while your order is being processed and you will receive a confirmation email when the transcript order is complete. Transcript requests may be need to be processed manually if there is a hold on your student account. As a result there may be a delay in processing the request. However, we do not hold transcript requests due to any financial obligation to the college.

For more information, contact the Registrar's Office or visit, https://www.farmingdale.edu/registrar/transcripts.shtml.

REGISTRAR'S OFFICE

The Office of the Registrar, located in Laffin Hall, is responsible for student registration, processing official and unofficial transcripts, class scheduling, posting grades and degrees on students' records, and verifying enrollment for all students, including veterans.

DEGREEWORKS

DegreeWorks is an accessible and user-friendly advisement tool. It provides students with an organized outlook degree plan evaluation. It is aimed to help the student progress through his or her degree plan efficiently. DegreeWorks compares the student's academic history with the degree requirements outlined in the College catalog. The student can use it to track their academic progress toward a degree, review the requirements they have completed and plan the courses they can take to complete their remaining requirements.

For additional information, go to: www.farmingdale.edu/registrar/degree-works

EMPLOYMENT PLACEMENT AND GRADUATE EDUCATION INFORMATION

The Office of Institutional Research & Effectiveness issues an annual report on the employment placement of graduates and on graduates who continue their education. The report contains information by curriculum about colleges where graduates continued their education, as well as places of employment. The report is available on the Office of Institutional Research & Effectiveness webpage. For further information, please email oir@farmingdale.edu.

ATTENDANCE AND LATENESS IN THE CLASSROOM

Faculty are required to maintain a complete record of student attendance in their classes in order to:

- Submit an accurate Non-Attendance Roster as required by federal financial aid regulations.
- Enter the date of last attendance when a student officially withdraws from the course, is assigned a UW because of failure to remain in the course, or is assigned an F because of failure to pass the course.
- Assign a grade in those classes in which the student's active participation is a requirement.

Student attendance is defined as being present in a timely manner for the duration of a face-to-face class meeting, or the equivalent level of participation in an online class. Such attendance is a reasonable and customary expectation for success in any course; however, grading policies that deduct points or letter grades for attendance issues alone are not allowed.

Students cannot be prohibited from entering a class during the scheduled meeting time unless this behavior creates a repetitive disruption, is considered hazardous, or compromises a classroom activity in progress such as an exam. Conversely, a student cannot be prevented from leaving a class at any time.

Attendance can be made a condition for earning full credit in any course in which participation is an integral part of the learning experience. The course syllabus must explain the basis for the participation requirement including the proportion of the grade that is based on participation as well as the specific student activities that are evaluated during that participation. The syllabus must also explain the provisions for making up an assignment related to attendance in those cases when the student cannot attend because of religious observances, a documented emergency, documented disabling conditions (medical, psychiatric, learning, etc.) or approved team sport obligations (such as a tournament or game).

Given the specific attendance requirements that are associated with various categories of courses offered by the college, guidelines for some of the more common categories are offered below:

- Clinical Experiences: Attendance policies that relate to clinical experiences are mandated by the standards of the programs in the School of Health Sciences; therefore, those policies would apply in addition to all other attendance policies of the college.
- Laboratory Courses – Attendance in laboratory courses other than clinical experiences is an integral part of the learning experience in such courses. Because lab courses are participatory, points can be appropriately deducted from the full credit for a student's grade in such a course for absences, separately from any grades earned on written or practical tests or exams in that course.
- Studio/Design Courses – The fundamental nature of most studio and design courses relies on student participation as an essential method for learning through both practical activity and critique. Students develop skills and techniques through significant applied experience under the guidance of an instructor and each class can build on the experience of the one before it. Therefore, points can be appropriately deducted from the full credit for a student's grade in such a course for absences, separately from any grades earned on submitted assignments or exams.
- Online/Hybrid Courses – Maintaining the required level of participation in an online or hybrid course is an integral part of the learning experience. Grading points can appropriately be deducted from the full credit for a student's grade in such a course for failure to maintain that required level of participation, separately from any grades earned on tests or for submission of assignments in the online format.
- Courses with In-Class Collaborative Activities and Student Presentations – These are lecture/theory courses in which active participation, including completing in-class projects or presentations, is an integral part of the learning experience and course requirements of the course. If such requirements are made clear in the syllabus, grading points can be appropriately deducted from the full credit for a student's grade in such a course for absences, separately from any grades earned on submitted assignments or tests or exams in that course.

To view the Student Attendance Policy, please visit: https://www.farmingdale.edu/policies/?pid=254274

RELIGIOUS ABSENCES

Students unable, because of religious beliefs, to attend classes on certain days are protected under the State Education Law as follows:

1. No person shall be expelled from or refused admission as a student to an institution of higher education for the reason that they are unable, because of their religious beliefs, to attend classes or to participate in any examination, study or work requirements on a particular day or days.
2. Any student in an institution of higher education who is unable to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.
3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school because of their religious beliefs, an equivalent opportunity to make up any examination, study or work requirements which they may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.
4. If classes, examinations, study or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or make-up classes, examinations, study or work requirements shall be made available on other days, where it is possible and practicable to do

so. No special fees shall be charged to the student for these classes, examinations, study or work requirements held on other days.

5. In effectuating the provisions of this section, it shall be the duty of the faculty and the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of their availing themselves of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of their rights under this section.
    1. It shall be the responsibility of the administrative officials of each institution of higher education to give written notice to students of their rights under this section, informing them that each student who is absent from school, because of his or her religious beliefs, must be given an equivalent opportunity to register for classes or make up any examination, study or work requirements which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to such student such equivalent opportunity.
7. As used in this section, the term "institution of higher education" shall mean any institution of higher education, recognized and approved by the Regents of the University of the State of New York, which provides a course of study leading to the granting of a post-secondary degree or diploma. Such term shall not include any institution which is operated, supervised or controlled by a church or by a religious or denominational organization whose educational programs are principally designed for the purpose of training ministers or other religious functionaries or for the purpose of propagating religious doctrines. As used in this section, the term "religious belief" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under section 501 of the United States Code.

SCHOOL CLOSING

During the course of the school year, there will be days when inclement weather conditions necessitate the cancellation of classes and/or activities by the President of the College. Because of the large number of students and staff, it is imperative that a pre-planned system be established to notify all segments of the campus community when the College is canceling its classes and/or activities.

The decision to cancel or delay classes rests with the President. When classes are canceled or delayed, and College offices are open, all non-teaching employees are expected to report for work or charge their time in accordance with appropriate policy. Only the Governor can close the campus entirely.

The best and most immediate way to find out about a delay or cancellation in classes is the College website at www.farmingdale.edu. The site can also be accessed on your mobile device. In addition, a campus-wide email about the status of classes is typically sent to all students, faculty, and staff and also announced on the College's social media venues such as Facebook and Twitter.

The College has also partnered with RAVE, an emergency notification provider that delivers both text messages and email messages. Students, faculty and staff may sign up for this emergency notification service by going to www.getrave.com and entering Farmingdale State College. Use your Farmingdale user ID and password to sign in. Please edit the information that appears for your account and include your cell phone number if you want to receive text notification. If you do not enter your cell phone number, you will receive RAVE notifications via email only.

The College also notifies News 12 on the delay or cancellation of classes.

Please note: there are no weather announcements when classes are in session. Announcements are made only in the event of a delay or cancellation. It is always advisable to keep checking the website and other communication vehicles for updates since unpredictable weather may dictate ongoing changes in the campus response. All members of the College community should be prepared to react to severe weather situations while on campus.

CHANGE OF NAME AND ADDRESS

The College reserves the right to discontinue mailing information to any student or former student upon notification from the US Postal Service that the address on record with the College is no longer valid.

ACADEMIC PROGRAMS

GRADUATE INSTRUCTIONAL PROGRAM

The New York State Education Department has authorized the State University of New York at Farmingdale to award the Master of Science degree in the following program.

Program	Degree Granted	Hegis Code[1]
Nursing Administration	Master of Science	1203.10
Construction Management	Master of Science	0599
Quality Assurance and Regulatory Affairs	Master of Science	0499

[1] Higher Education General Information Survey (Not to be confused with curriculum code required on SUNY application)

UNDERGRADUATE INSTRUCTIONAL PROGRAMS

The Baccalaureate Degree

The Bachelor of Science (BS) and Bachelor of Technology (BTech) degrees accept eligible freshmen and transfer students. Graduates of all BS and BTech programs are qualified for gainful and rewarding careers or to pursue their education at the graduate level. The New York State Education Department has authorized the State University of New York at Farmingdale to award degrees in the following programs.

Program	Degree Granted	Hegis Code[1]
Aeronautical Science-Professional Pilot	BS	0510
Applied Economics	BS	2304
Applied Gerontology	BS	1299
Applied Mathematics	BS	1703
Applied Physics	BS	0919
Applied Psychology	BS	2008
Architectural Engineering Technology	BS	0925
Artificial Intelligence Management - online	BS	0799
Aviation Administration	BS	0599
Bioscience	BS	0499
Business Analytics	BS	0503
Business Management	BS	0506
Civil Engineering Technology	BS	0925
Computer Engineering Technology	BS	0925
Computer Programming and Information Systems	BS	0799
Computer Science	BS	0701
Computer Security Technology	BS	0925
Construction Management Engineering Technology	BS	0925
Criminal Justice: Law Enforcement Technology	BS	2105
Criminal Justice: Police, Courts and Corrections	BS	2105
Dental Hygiene	BS	1213
Dental Hygiene Completion- online	BS	1213
Electrical Engineering Technology	BS	0925
Facility Management Technology	BS	0925
Geographic Information Systems	BS	2206
Global Business Management	BS	0513
Health Promotion and Wellness	BS	1299
Horticultural Technology Management	BTech	0599
Interaction Design	BS	1009
Manufacturing Engineering Technology	BS	0925
Mechanical Engineering Technology	BS	0925
Medical Laboratory Science	BS	1223
Nursing	BS	1203
Nursing RN to BS Completion – online	BS	1203
Nutrition Science	BS	0424
Professional Communications	BS	0601
Public Administration and Policy	BS	2102
Science, Technology, & Society	BS	4904
Security Systems	BS	2105
Sport Management	BS	0182
Visual Communications: Art & Graphic Design	BS	0699

The Associate Degree

The Associate in Arts (AA) and the Associate in Science (AS) degrees are offered as the first two years of a traditional baccalaureate program. The Associate in Applied Science (AAS) programs were originally intended to be "career" rather than "transfer" programs. However, growing numbers of students continue their education after completing one of the career programs primarily oriented to a specific occupation. Anyone considering enrollment in an AAS degree program who is concerned about transfer potential should see an admissions counselor.

The New York State Education Department has authorized the State University of New York at Farmingdale to award degrees in the following programs.

Program	Degree Granted	Hegis Code[1]
Criminal Justice –Law Enforcement	AS*	5505
Dental Hygiene	AAS**	5203
General Horticulture	AAS	5402
Landscape Development	AAS	5402
Liberal Arts and Sciences	AA***	5649

**AS- Associate in Science*
***AAS- Associate in Applied Science*
****AA - Associate in Arts*

Certificate Programs

Each certificate program is approved by the State Education Department and is a comprehensive sequence of courses in a specialized field. For prerequisites and college-level courses in the recommended sequence of study, refer to the certificate program outline.

Program	Hegis Code[1]
Accounting	5002
Cannabis Production and Management	5402
Computer Information Systems	5101
Human Resource Management	0515
Management	5004
Marketing	5004
Modern Manufacturing and Quality Assurance	5315
Ornamental Horticulture	5402
Sciences for the Health Professions	5299
Sustainable Energy	5699
Wind Turbine Technology	5301

To review the Gainful Employment Disclosures for each certificate programs please refer to the certificate program outlines.

[1] Higher Education General Information Survey (Not to be confused with curriculum code required on SUNY application)

MICROCREDENTIALS

Microcredentials issued by Farmingdale State College verify, validate and attest that specific skills and/or competencies have been achieved. They serve as an introduction or entry into a degree program, provide complimentary skills in the form of workforce training, and highlight student competencies earned in a credit-bearing program. Offered in flexible timespans, microcredentials can be taken in an online, hybrid, or on campus format. Microcredentials provide students with skill sets complimentary to those learned in their degree program or on the job, helping distinguish them in a competitive market place.

Three types of microcredentials are offered at Farmingdale State College:

College (two types both require credit bearing activities):

1. At least two and no more than four 3-credit classes or the equivalent.
2. A cluster of content across several credit-bearing courses that builds to a requisite body of knowledge.

Workforce Development:
Regional workforce training that can be credit or non-credit bearing, including training for FSC faculty and staff.

Co-curricular:
Related to career development, applied learning, and/or campus and civic engagement and is non-credit bearing.

A listing of all microcredentials is available at: https://www.farmingdale.edu/provost/microcredentials/index.shtml

ADMISSIONS INFORMATION

Admission to this College and to all other units of the State University of New York is based on the academic qualifications of the respective applicants, and is made without regard to the race, color, creed, age, sex, sexual orientation, national origin, disability, handicap or veteran status of an individual.

Matriculation / Non-Matriculation
A matriculated student is one who has been officially accepted into a degree or certificate program and is making satisfactory progress. A non-matriculated student is one who has not been accepted into a degree or certificate program.

New York State Residents/Non-residents of New York State
A resident of New York State is entitled to pay the in-state tuition rate. To qualify for the in-state tuition rate, a student must have resided in the State of New York for a period of at least one year immediately preceding the time of their registration at Farmingdale State College. All other persons shall be considered out-of-state residents and will pay the out-of-state tuition rate. In cases of discrepancy, a student may be asked to supply documentation such as place of voter registration, New York State tax returns or driver's license, or telephone/electric bills as proof of principal residence.

Occasionally, extenuating circumstances warrant special consideration. Please call the Office of Student Accounts at 934-420-2560 for further information.

HEALTH REQUIREMENTS

All students must submit immunization records to the Health and Wellness Center to satisfy NY State Public Health Laws 2165 & 2167. Please refer to the Health and Wellness webpage on MYFSC for detailed information regarding these requirements.

ADMISSION AND ENROLLMENT OF PERSONS WITH PRIOR FELONY CONVICTIONS

State University of New York (SUNY) policy prohibits Farmingdale State admissions application from inquiring into an applicant's prior criminal history. After acceptance, the College shall inquire if the student previously has been convicted of a felony if such individual seeks campus housing or participation in clinical or field experiences, internships or study abroad programs. The information required to be disclosed under SUNY policy regarding such felony convictions shall be reviewed by a standing campus committee consistent with the legal standards articulated in New York State Corrections Law. Students who have previously been convicted of a felony are advised that their prior criminal history may impede their ability to complete the requirements of certain academic programs and/or to meet licensure requirements for certain professions. Students who have concerns about such matters are advised to contact the academic department chair.

ADMISSION OF PERSONS WITH DISCIPLINARY DISMISSALS

State University of New York (SUNY) policy requires applicants for admission to report whether they have been dismissed from an institution of higher education for disciplinary reasons.

Applications from such candidates are reviewed by a campus committee whose purpose is to decide whether an applicant with a disciplinary dismissal from an institution of higher education should be admitted. After review of all information the committee will determine whether to deny admission, admit or admit with certain conditions.

ADMISSION TO UNDERGRADUATE DEGREE PROGRAMS

(see Graduate section for Graduate program information)

General Admission Requirements
Note: In addition to the General Admission Requirements listed, specific high school level courses are required for each major. Please refer to details found later in this section. Furthermore, for admission to programs in Dental Hygiene, Medical Laboratory Science, Nursing and Aeronautical Science- Professional Pilot, applicants must meet specific standards which can also be found later in this section.

1. Applicants must be graduates of approved four-year high schools, or hold a General Equivalency Diploma or its equivalent.
2. Applicants applying on the basis of their high school record must have satisfactorily completed the specific course requirements noted under each program's listing. Additional courses may be required as deemed necessary by each academic department.
3. Students transferring to the college should have minimum cumulative grade point average of 2.5 or above and be in good standing at their prior institution. Contact the Admissions Office for requirements by program as some have higher minimum grade point average requirements. Proof of high school graduation is required for ALL transfer students who do not possess a college degree.

APPLICATION PROCEDURES – UNDERGRADUATE DEGREE PROGRAMS

All United States citizens and permanent residents applying to a degree program must follow the State University of New York application procedure.

1. The application for admission is available at suny.edu/attend or commonapp.org
2. Transcripts and other printed materials may be sent to the Admissions Office at the following address:
   Office of Admissions
   Farmingdale State College
   2350 Broadhollow Road
   Farmingdale, NY 11735
   934-420-2200
   processing@farmingdale.edu
   - For high school seniors, an official copy of the high school transcript should be sent directly to the Admissions Office. Final high school transcripts must be submitted for all enrolled students after graduation. Also, SAT (code 2526) or ACT (code 2918) exam scores should be sent directly to the Admissions Office.
   - Individuals no longer in high school should request that an official final high school transcript be sent by the guidance office at the high school from which they graduated, or attended, directly to the address above.
4. Individuals who have attended any other college must have official high school and college transcripts sent directly to the Admissions Processing at the address listed above
5. Holders of a High School Equivalency Diploma (GED) must send an official copy of test scores and diploma directly to the Admissions Processing at the address listed above.
6. Applicants are strongly encouraged to include essays, letters of recommendation, and any other information that may be of use to the Admissions Committee. Applicants may be requested to appear for a personal interview during the admissions process.
7. Home schooled students must provide documentation of successful completion of the high school home school program. This can be done by providing an official notation of completion from the local school district; providing the official score report of the GED or TASC examination; providing a college transcript indicating the student has taken and successfully completed 24 college credits in accordance with the NYS Education Commissioner's Regulations. Important Note for NYS Residents: Residents of New York State MAY NOT use a high school program of correspondence study to meet the requirements for high school in New York State (NYSED-3/20/2008).

APPLICATION PROCEDURES – CERTIFICATE PROGRAMS

Admission to certificate programs is based upon proof of graduation from an accredited four-year high school or successful completion of a General Equivalency Diploma or its equivalent. Certain certificate programs may also have specific prerequisite course requirements. Contact the Admissions Office for further information.

APPLICATION PROCEDURES – NON-DEGREE UNDERGRADUATE COURSES

Applications for non-degree/non-matriculated undergraduate registrations are available at www.farmingdale.edu/admissions. A completed application along with a non-refundable $50 application fee is required. A verifiable record from high school and/or prior colleges attended will be required for proof of completion of pre-requisite courses. Contact the Admissions Office for further information.
NOTE: Non-matriculated students are NOT ELIGIBLE to receive any Federal or State Financial Aid.

Matriculated vs. Non-matriculated	Matriculated	Non-Matriculated
Eligible for Financial Aid (Federal & State)	Yes	No
Priority Registration	Yes	No
Eligible for a Degree	Yes	No
Receive Academic Advisement	Yes	Yes

1. Non-Matriculated students who wish to continue taking courses with non-matriculated status after their initial term at Farmingdale are required to submit official high school and/ or college transcripts to the Admissions Office in order to maintain registration privileges for future semesters.
2. Non-Matriculated students may earn a maximum of 32 credits, after which they must seek admission to a program or request permission from the Non-Matriculated Student Academic Advisor to remain as a non-matriculated student. Failure to do so will prevent the student from registering for further courses.
3. Non-Matriculated students do not have standing within academic programs and therefore are not permitted to register for internship classes.
4. Non-Matriculated students are limited to 5 courses (including associated labs) for a maximum of 16 credits per semester. Students seeking to take more than 16 credits must meet with the Academic Advisor for Non-Matriculated Students and apply for permission to do so.
5. Non-Matriculated students must maintain the same academic standards as matriculated students, i.e., a grade point average of 2.0 or above to remain in good academic standing (a GPA of 2.0 will not ensure admission to a student's preferred program). If suspended from the College, the student may appeal for academic reinstatement from the Non-Matriculated Student Academic Advisor who will process the appeal through the Provost's Office.

TRANSFER STUDENTS

Transfer students are considered for admission to programs at Farmingdale State College based upon their level of achievement in coursework undertaken at other colleges and universities, as well as their high school academic record in some instances.

All applicants admitted to the college as transfer students must supply official transcripts for each college previously attended before the transfer credit evaluation process can begin. Please refer to the section on Academic Information concerning transfer credit.

THE EDUCATIONAL OPPORTUNITY PROGRAM

The Educational Opportunity Program (EOP) provides admission and support of New York State residents who are historically economically and academically disadvantaged. All such students will have demonstrated the academic potential to succeed at the college level and once accepted receive various academic, personal and financial support services. Applicants must select EOP on the SUNY application for consideration and must meet the academic guidelines for admission as determined by the college and the financial guidelines as established by the Office of Opportunity Programs in Albany. For further information, please call the EOP Office at 934-420-2230.

ADMISSION OF INTERNATIONAL STUDENTS

International students are individuals who are not U.S. citizens, permanent residents, or do not have refugee status in the U.S. Students attending on an F-1 Student Visa must be enrolled full time and submit the following information along with the standard SUNY application or common application:

1. Farmingdale State requires that foreign credentials be evaluated by a member of NACES (naces.org), World Education Services (WES) (wes.org), or Spantran (spantran.com) are recommended. Secondary school records must reflect academic achievement equivalent to the minimum for admission (B average) when converted to the American grading scale. A transfer grade point average of at least C+ is required of international students who wish to transfer from other colleges in the United States.
2. Applicant's whose native language is not English must submit an official score report from one of the following tests to demonstrate English language proficiency or submit an official transcript from an accredited U.S. college with a grade of C+ or better in a college level writing course. Alternative methods of evaluation may be considered based on credentials.

Test	Minimum Requirement
TOEFL- IBT (internet-based)	74
TOEFL- (paper-based)	537
IELTS	6
SAT (critical reading)	400

3. It is also necessary to provide financial documentation indicating that the applicant has sufficient funding to pay for all educational and personal expenses while in the United States. International students must be able to cover all the costs of attendance, as financial aid is not available to international students. The amount considered as sufficient funding may vary from year to year.
4. Application deadlines for students residing in another country are June 1 for the Fall term and November 1 for the Spring term.

Note: International students currently studying in the United States on an F-1 visa must also submit the following items:

1. Copies of current I-20, passport, visa, and I-94 form.
2. Completed transfer verification form indicating enrollment status at current institution

For additional information, please contact the Office of International Education & Programs or visit the webpage at farmingdale.edu/international-education.

ADMISSION DECISIONS

Admission to programs is on a "rolling" basis, admitting all eligible candidates on a first-come, first-served basis. The College cannot guarantee that applications received after June 1st will be granted consideration. Applicants apply and are accepted to a specific curriculum. Admissions requirements vary according to program. Decisions are based primarily on grades in all academic courses including the specific prerequisite courses required for each curriculum. Applicants with prerequisite courses in progress can be offered conditional acceptance. Final transcripts must be received prior to the start of the semester in order to maintain matriculated status.
Applications to the Aeronautical Science: Professional Pilot, Applied Psychology, Dental Hygiene, and Nursing programs are not accepted on a rolling basis. Recommended application filing dates are:

- Aeronautical Science: Professional Pilot - January 15 (Fall only)
- Applied Psychology - October 1 (Spring) or March 1 (Fall)
- Nursing - October 15 (Spring) or January 15 (Fall)
- Dental Hygiene - January 15 (Fall)

ADMISSIONS APPEALS

Applicants who are denied and wish to request reconsideration of their application must submit a formal request in writing. It is recommended that a personal statement, updated academic information and letter of recommendation be included. Updated information should be attached to the appeal form on the admissions website.

EARNING A GENERAL EQUIVALENCY DIPLOMA (GED)

Individuals who have not earned a high school diploma may be issued a General Equivalency Diploma (GED) upon successful completion of 24 college credits. For further information contact the High School Equivalency Program at the New York State Education Department at 518-474-5906 or visit https://www.acces.nysed.gov/hse/high-school-equivalency-hse

ARTICULATION, JOINT ADMISSIONS AND UNIFIED TRANSFER AGREEMENTS

Farmingdale State College has entered into several special agreements with local high schools, BOCES, two-year colleges, and other educational institutions designed to provide an easy transition to students both entering the College's academic programs and moving on to graduate school upon degree completion.
New York State residents who are graduates of a State University of New York two-year college or a City University two- year college, including University community colleges operating under the program of the University, and who possess an AA or AS degree, shall be guaranteed an opportunity to continue their education on a full-time basis at a baccalaureate campus of the University. AA and AS graduates will be granted full credit transfer for general education courses taken and not be required to repeat successfully completed course with similar curricular content. Transfer students are obligated to meet only those admissions requirements to institutions or to a particular program applicable to continuing and returning students. Transfer students are to be accorded, as far as possible, opportunities in areas such as housing, advisement and registration comparable to those of continuing and returning students. Graduates, when accepted in parallel programs at baccalaureate campuses of the University, will be afforded full junior standing and be given the opportunity to complete the requirements for a bachelor's degree within four additional semesters of full-time work. To be eligible for the program, a student must comply with application submission deadlines and have an AA or AS degree at the time of application.

Additional information about these agreements and Associate/ Bachelor degree parallel programs at Farmingdale is available from the Admissions Office or the Provost's Office webpage, https://www.farmingdale.edu/provost/articulation_agreements.shtml

PRE-COLLEGE PROGRAMS

The Department of Pre-College Programs provides high school students with early access to college-level learning through dual enrollment, concurrent enrollment, and enrichment experiences. Through University in the High School, Summer Academy, and related programs, the department helps students earn college credit, explore academic and career pathways, and build confidence before graduating high school.

STUDENT IMMUNIZATION POLICY

In compliance with NY State Public Health Laws 2165 and 2167, all students must meet the immunization requirements outlined below:

Measles, Mumps, Rubella (MMR):

New York State law requires all students born on or after January 1, 1957 who attend an institution of higher learning to provide proof of immunization as follows:

- Measles: Two doses of live measles vaccine administered at least one month apart, after 12 months of age and after 1968
- Mumps: One does of live mumps vaccine administered after 12 months of age
- Rubella: One dose of live rubella vaccine administered after 12 months of age

In lieu of immunization records, students may submit:

- Physician documentation of disease for measles and mumps (not acceptable for rubella), or
- Laboratory reports (titers) showing immunity for each of the three diseases (actual lab report must be submitted)

Meningococcal Meningitis Requirement:

New York State law also requires ALL students to read and sign a form regarding meningococcal meningitis and the meningitis vaccine. Students must indicate whether they have received the vaccine, plan to get the vaccine or decline the vaccine.

- Note: ALL residential students living on campus are required to be immunized against meningitis

Students who fail to comply with these requirements will be disenrolled from the college and will not receive a refund of tuition.

Deadlines and Compliance:

Students must meet all immunization requirements prior to the start of the semester. Failure to comply will result in a hold on the students account, preventing future registration and possibly disenrollment.

All documentation can be uploaded to your student patient portal (myhealth.farmingdale.edu, using your single sign on) or emailed to wellness@farmingdale.edu.

Exceptions:

Medical exceptions may be granted with physician documentation indicating that the immunization would be detrimental to a student's health. Religious exemptions may be granted upon submission of documentation of sincere religious beliefs against immunizations.

Health Science Students:

Health Science students assigned to clinical sites must meet all agency and New York State hospital code requirements prior to clinical placement. Documentation of immunity and/or vaccination, including MMR, Varicella, Hepatitis B, TDAP, Influenza and PPD is required. Without this documentation, students will be unable to attend clinical rotations and therefore will not meet program, licensure, or certification requirements.

For additional information, contact:

The Health and Wellness Center at 934-420-2009

Students may also contact their physician, high school or local county health department for assistance.

CROSS REGISTRATION

The primary intent of cross registration is to improve on-time degree completion by providing students access to the courses they need, when they need them. Cross-registration occurs when one SUNY institution (the Host Campus) provides instruction for a student enrolled in a degree or certificate program at another SUNY institution (the Home Campus) during the same academic term. For further information on the procedure for cross registration, please visit the FSC Registrar's webpage. You will be directed to the SUNY page to apply for cross registration. www.farmingdale.edu/registrar/cross-registration.shtml

ADMISSIONS INFORMATION

ADMISSIONS REQUIREMENTS - BACHELOR & ASSOCIATE DEGREES

For the most up to date admissions requirements, please visit the Admissions webpage.

ADMISSIONS INFORMATION

SANTMANN SCHOOL OF HEALTH SCIENCES - TECHNICAL STANDARDS FOR ADMISSION AND RETENTION

Dental Hygiene Department
Dental Hygiene education requires that the accumulation of scientific knowledge be accompanied by the simultaneous acquisition of skills essential to the profession. The curriculum is stressful requiring both emotional stability and physical stamina.

Candidates seeking enrollment into the Dental Hygiene program at Farmingdale State College must meet the safety and technical standards in the following areas: communication, observation/sensory, motor, intellectual-conceptual, and behavioral-social attributes.

Communication: The student must possess the ability to communicate effectively in English using reasonable spelling, grammar and syntax in both oral and written formats. In addition, the student must notice and appreciate both verbal and nonverbal communication when performing dental hygiene care. Examples of communication include but are not limited to:

- Effectively obtain a patient's history
- Accurately interpret data from medical records
- Document pertinent observations
- Interact effectively with members of the health care team
- Explain alternative treatment options
- Communicate directions during and after treatment

Observation/Sensory: Students must be able to observe a patient accurately, both at a distance and close at hand. In addition, the student must have the functional use of the senses of vision, touch, hearing, and smell which are necessary in assessing patients and maintaining their safety. Examples of observation/sensory skills include but are not limited to:

- Auditory ability to monitor vital signs.
- Visual ability to determine variations in color, shape, texture and consistency i.e. early signs of inflammation, skin changes (pallor, cyanosis and ecchymosis).
- Visual acuity to read charts, records, small print, handwritten notations and instrument markings.
- Tactile ability must be sufficient for assessment and performance of dental hygiene procedures, i.e. calculus detection, tooth defect identification.
- Palpation of pulses

Motor: The student is required to perform gross and fine motor movements, maintain consciousness and equilibrium, and possess the physical strength and stamina which are necessary to provide safe patient care. The candidate should have full manual dexterity including the functioning of both arms, both wrists, both hands and all fingers. Examples of motor skills include but are not limited to:

- Instrumentation skills requiring dexterity i.e. grasping, fingering, pinching, pushing, pulling, holding, extending, and rotation
- Controlled intraoral and extraoral hand movements of less than one millimeter
- Operation of foot controls for low speed handpieces, ultrasonic scalers, air polishers etc...
- Responding rapidly to emergency situations (cardiac arrest, respiratory arrest, falls)
- Transferring patients
- Protect and remove patients from an area in the event of a fire or disaster

Intellectual-conceptual: The student must possess the ability to problem solve, establish a plan of care, set priorities, calculate, measure, analyze and synthesize objective as well as subjective data. These critical skills are essential for providing quality dental hygiene care. In addition, the candidate must possess the ability to understand and comprehend three dimensional and spatial relationships. Examples of intellectual- conceptual skills include but are not limited to:

- Calculate the variations in milliamperage, kilovoltage, distance and exposure time on the resulting dental radiograph
- Measure clinical attachment loss
- Develop care plans based on individual patients needs
- Utilize appropriate instrument adaptation

Behavioral-social attributes: The student must possess emotional stability and flexibility, which will enable them to develop the ability to function effectively in stressful situations. This includes the ability to adapt to changing environments, exercise sound judgment, complete assessment and intervention activities and develop sensitive interpersonal relationships with patients, families and others responsible for health care. Examples of these behavioral and social attributes include but are not limited to:

- Ability to express empathy
- Ability to think and act rationally during a crisis
- Demonstrate appropriate behavior towards staff, peers and patients according to societal norms
- Maintaining confidentiality
- Accepting constructive criticism

Admission to the dental hygiene program is open to all qualified individuals in accordance with the 1973 Vocational Rehabilitation Act (29 U.S.C. 701 et seq.) and the Americans with Disabilities Act (42 U.S.C. 12101 et seq.). However, due to the rigors of the curriculum and the immense responsibility for safe patient treatment a student can be denied admission to the dental hygiene program or disenrolled from the program if accommodating the student's disability would pose a direct threat to patients or would compromise the academic integrity of the program.

Medical Laboratory Science Department
Candidates seeking enrollment into the MLS curriculum must complete the College entrance requirement of a physical examination demonstrating satisfactory physical and emotional health, as well as the necessary proof of immunization against measles, mumps, and rubella. Candidates will also be expected to meet the safety and technical standards that are necessary to perform the "essential functions" of a Medical Laboratory Scientist. The technical standards are in the following areas: observation-communication, motor, intellectual-conceptual, and behavioral-social attributes.

Observation-Communication: The student must possess the ability to communicate effectively and read, write and use the English language. In addition, the student must have the functional use of the senses of vision, touch, hearing, and smell. Examples of observation-communication include but are not limited to:

- Read and interpret laboratory endpoints such as color, cloudiness/ turbidity and texture.
- Identify stained and unstained cellular elements using a microscope.
- Report results in writing, orally, or by computer entry.
- Possess a sense of touch and temperature discrimination.
- Work safely with potential chemical, radiological and biological hazards.

Sensory/Motor: The student is required to perform gross and fine motor movements, maintain consciousness and equilibrium. Examples of sensory/ motor skills include but are not limited to:

- Demonstrate manual dexterity of both upper limbs to operate laboratory equipment, and perform manual laboratory procedures such as pipetting, venipuncture, and plating microorganisms.
- Possess eye-hand coordination to operate a microscope.
- Respond rapidly to an emergency situation (spills, fire, disaster)

Intellectual-conceptual: The student must possess the ability to problem solve, prioritize work, calculate, measure, analyze and synthesize objective as well as subjective data. Examples of intellectual-conceptual skills include but are not limited to:

- Perform statistical calculations to interpret test results
- Sample measurement and evaluation
- Interpret quality control results
- Work on multiple tasks simultaneously

Behavioral-social attributes: The student must possess emotional stability and flexibility, which will enable them to develop the ability to exhibit appropriate professional conduct in stressful situations. Examples of these behavioral and social attributes include but are not limited to:

- Fulfill commitments and be accountable for actions.
- Maintain composure in stressful situations, i.e. under pressure and with time constraints.
- Willingly follow directions.
- Recognize emergency situations and react appropriately.
- Maintain patient confidentiality.

A person who cannot perform the "essential functions" of the profession will not be considered qualified for entrance into the program and may be denied access without being subject to legal action for discrimination. Both section 504 of the Rehabilitation Act. 29 U.S.C.A. Section 794, and the Americans with Disabilities Act prohibit discrimination against "otherwise qualified" persons with a disability. Those persons not meeting the technical standards are not considered "otherwise qualified" to enter into the profession.

Nursing Department
Candidates seeking enrollment into the nursing program at Farmingdale State College must meet the safety and technical standards in the following areas: observation-communication, motor, intellectual-conceptual, and behavioral-social attributes.

Observation-Communication: The student must possess the ability to communicate effectively and read, write and use the English language. In addition, the student must have the functional use of the senses of vision, touch, hearing, and smell which are essential in assessing patients and maintaining their safety. Examples of observation-communication include but are not limited to:

- Listening to heart and breath sounds
- Responding to alarms
- Visualizing early signs of distress/complications, e.g. changes in skin color; assessing surgical wounds
- Detecting the presence of a foul odor or drainage
- Feeling pulses
- Effectively obtain a patient's history
- Accurately interpret data from medical records
- Document pertinent observations
- Interact effectively with members of the health care team

Sensory/Motor: The student is required to perform gross and fine motor movements, maintain consciousness and equilibrium, and possess the physical strength and stamina which are necessary to provide safe nursing care. Examples of sensory/ motor skills include but are not limited to:

- Transferring patients
- Performing skills requiring dexterity (insertion of tubes, medication injections, instilling injections, inserting suppositories, tracheostomy care)
- Responding rapidly to emergency situations (cardiac arrest, respiratory arrest, falls)
- Protecting and remove patients from an area in the event of a fire or disaster

Intellectual-conceptual: The student must possess the ability to problem solve, establish a plan of care, set priorities, calculate, measure, analyze and synthesize objective as well as subjective data. These critical skills are demanded of nurses in today's complex health care settings. Examples of intellectual- conceptual skills include but are not limited to:

- Calculating medication dosages, IV flow rates
- Measuring intake and output
- Developing teaching plans for individual patients

Behavioral-social attributes: The student must possess emotional stability and flexibility, which will enable them to develop the ability to function effectively in stressful situations. This includes the ability to adapt to changing environments, exercise sound judgment, complete assessment and intervention activities and develop sensitive interpersonal relationships with patients, families and others responsible for health care. Examples of these behavioral and social attributes include but are not limited to:

- Ability to express empathy
- Ability to think and act rationally during a crisis
- Demonstrating appropriate behavior towards staff, peers and patients according to societal norms
- Maintaining confidentiality
- Accepting constructive criticism

PASTERNACK SCHOOL OF ENGINEERING TECHNOLOGY - TECHNICAL STANDARDS FOR ADMISSION AND RETENTION

Architectural Engineering Technology
Farmingdale State College recognizes and complies with the Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, and other applicable federal and state regulations that prohibit discrimination on the basis of disability. Otherwise-qualified individuals shall not be excluded from participation solely by reason of their disability or medical condition.

The Technical Standards are intended to inform students of the skills, abilities, and behavioral expectations required in the Department of Architecture & Construction Management programs with or without reasonable accommodation. The Technical Standards reflect performance abilities and characteristics that are necessary to successfully complete the requirements of the programs.

Students enrolled at Farmingdale State College are responsible for requesting accommodations, and providing the appropriate and required documentation of a disability, in a timely manner with Disability Services Center. If you feel you are unable to meet the Technical Standards because of a disability, you are encouraged to discuss your concerns with Disability Services Center prior to enrollment.

Technical Standards
These technical standards outlined in this section establish the essential qualities considered necessary for students admitted to these programs to achieve the knowledge, skills, and competencies to enter these fields. The successful student must possess the following skills and abilities or be able to demonstrate that they can complete the requirements of the program, with or without reasonable accommodation, using some other combination of skills and abilities:

Physical and Motor Abilities:
Sufficient manual dexterity and motor coordination to coordinate eyes, hands, and fingers to perform individual and simultaneous tasks. The student is required to possess the physical strength and stamina necessary to function indoor and outdoor spaces in activities such as

- perform drafting and drawing techniques using manual or computer-based tools
- create architectural models using manual material-based skills or computer-based visualization tools
- properly assemble and utilize measurement instruments and other laboratory tools.
- conduct experiments with soils and building materials.

Sensory Abilities:
Student must have the functional use of vision that is necessary in assessing and interpreting ideas and concepts visually and/or graphically. Students must be able to assess spatial relationships and wayfinding to assemble patterns, objects and other physical systems. In addition, students must make independent observations and assessments when utilizing hand tools, drafting equipment and drawing/modeling/visualization software. Examples of sensory observation skills include but are not limited to:

- read small print and colors associated with architectural drawings and construction plans
- determine distance and spatial relationships of building components and materials
- understand spatial relationships and wayfinding to assemble and interpret patterns and objects needed for representation of architectural and construction concepts in projects

Environmental Tolerability
The student must have ability to work outdoors, in instructional, and construction site conditions that may include: extreme noise, heat, fumes, dust, chemicals, toxins, water, cement, asphaltic cement, and/or other construction materials. Examples of these skills include:

- visits to active construction sites
- compliance with site safety requirements such as OSHA that specify the use of personal protective equipment such as eye and hearing protection, boots and hard hats

Communications Skills:
The student must possess the ability to communicate effectively using reasonable grammar and syntax in both oral and written formats.
In addition, the student must notice and appreciate both verbal and nonverbal communication when preparing, interpreting, and presenting architectural design and/or construction project specifications. Examples of communication skills include but are not limited to:

- understand client requests, instructions, and descriptions
- effectively report to the supervisor any architectural, construction, or infrastructure- related issues
- effectively work as a member of a technical, design, or problem-solving team, collaborating with clients and stakeholders to bring proposals/ projects to conclusion

- read and comprehend technical manuals, drawings, manufacturer's specifications, instructions, and warning labels in the prevailing language of United States codes, standards, and licensure

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Construction Management Engineering Technology and Civil Engineering Technology
Farmingdale State College recognizes and complies with the Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, and other applicable federal and state regulations that prohibit discrimination on the basis of disability. Otherwise-qualified individuals shall not be excluded from participation solely by reason of their disability or medical condition.

The Technical Standards are intended to inform students of the skills, abilities, and behavioral expectations required in the Department of Architecture & Construction Management programs with or without reasonable accommodation. The Technical Standards reflect performance abilities and characteristics that are necessary to successfully complete the requirements of the programs.

Students enrolled at Farmingdale State College are responsible for requesting accommodations, and providing the appropriate and required documentation of a disability, in a timely manner with Disability Services Center. If you feel you are unable to meet the Technical Standards because of a disability, you are encouraged to discuss your concerns with Disability Services Center prior to enrollment.

Technical Standards
These technical standards outlined in this section establish the essential qualities considered necessary for students admitted to these programs to achieve the knowledge, skills, and competencies to enter these fields. The successful student must possess the following skills and abilities or be able to demonstrate that they can complete the requirements of the program, with or without reasonable accommodation, using some other combination of skills and abilities:

Physical and Motor Abilities:
Sufficient manual dexterity and motor coordination to coordinate eyes, hands, and fingers to perform individual and simultaneous tasks. The student is required to possess the physical strength and stamina necessary to function indoor and outdoor spaces in activities such as

- perform drafting and drawing techniques using manual or computer-based tools
- create architectural models using manual material-based skills or computer-based visualization tools
- properly assemble and utilize measurement instruments and other laboratory tools
- conduct lab experiments with soils and building materials
- safely traverse terrain of 2000 feet that may be uneven and/or have a steep incline during surveying and site visits
- safely lift and handle weight of 25 pounds during laboratory activities utilizing soil samples or cement.

Sensory Abilities:
Student must have the functional use of vision that is necessary in assessing and interpreting ideas and concepts visually and/or graphically. Students must be able to understand spatial relationships and wayfinding to assemble patterns, objects and other physical systems. In addition, students must make independent observations and assessments when utilizing hand tools, drafting equipment and drawing/modeling/visualization software. Examples of sensory observation skills include but are not limited to:

- read small print, drafting lines, symbols and colors associated with multi-disciplinary (architectural, mechanical, plumbing and electrical) drawings and construction plans
- determine distance and spatial relationships of building components and materials
- understand spatial relationships and wayfinding to assemble and interpret patterns and objects needed for representation of architectural and construction projects

Environmental Tolerability:
The student must have ability to work outdoors, in laboratory, instructional, and construction site conditions that may include: extreme noise, heat, fumes, dust, chemicals, toxins, water, cement, asphaltic cement, and/or other construction materials. Examples of these skills include:

- surveying
- visits to active construction site
- compliance with site safety requirements such as OSHA that specify the use of personal protective equipment such as eye and hearing protection, boots and hard hats.

Communications Skills:
The student must possess the ability to communicate effectively using reasonable grammar and syntax in both oral and written formats. In addition, the student must notice and appreciate both verbal and nonverbal communication when preparing, interpreting, and presenting multi-disciplinary design and/or construction project specifications. Examples of communication skills include but are not limited to:

- effectively work as a member of a technical, design, or problem-solving team, collaborating with clients and stakeholders to bring construction proposals/projects to conclusion
- read and comprehend technical manuals, drawings, manufacturer's specifications, instructions, and warning labels in the prevailing language of United States codes, standards, and licensure

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Aviation Professional Pilot Program
Flight training requires that the accumulation of aeronautical knowledge be accompanied by the simultaneous acquisition of skills essential to the profession. The curriculum is stressful requiring both emotional stability and physical stamina. All students flight training at Farmingdale State College must meet the safety and technical standards in the following areas: Communication Skills, Sensory Observation Skills, Motor Skills, Intellectual-Conceptual (Thinking) Skills, Behavioral-Social Skills, and Environmental Tolerance Skills. In addition, students must be able to obtain and maintain a FAA Medical Certificate as specified in the Medical Standards in the Code of Federal Regulations Title 14 Part 67, and provide acceptable United States Citizenship Documentation or acceptance by the Transportation Security Administration Flight School Security Program for Legal Aliens in the Code of Federal Regulations Title 14 Part 1552.

Communication Skills: The student must possess the ability to communicate effectively in English using reasonable grammar and syntax in both oral and written formats. In addition, the student must notice and appreciate both verbal and nonverbal communication when performing the duties of Pilot in Command (PIC). Communication skills will be evaluated upon the student's pronunciation, structure, vocabulary, fluency, comprehension, and interactions of the English language as per the English language eligibility requirements of 14 CFR parts 61 and 63. Read, write, and understand English as required by FAA standards. Use English to obtain necessary information from acural and written sources. Express information clearly in English both verbally and in writing. Understand and correctly respond to radio and air traffic communication. Communicate clearly by radio with air traffic control Communicate clearly by radio with other pilots in the air.

Sensory Observation Skills: Students must be able to make independent observations and assessments to maintain positive aircraft control and safely pilot an airplane: observe air traffic accurately, both at a distance and near. In addition, the student must have the functional use of the senses of vision, touch, hearing, and smell which are necessary in assessing aircraft preflight actions and maintaining aircraft safety. Examples of Sensory Observation Skills include but are not limited to:

- Complete a pre-flight inspection of the engine, propeller, and electrical, environmental, hydraulic, pneumatic, fuel, ignition, lubrication, and flight control systems
- Process visual, auditory, and tactile input simultaneously
- Monitor for other air traffic through continuous visual scanning and radio calls
- Monitor instrument panel
- Detect and respond to auditory signals from air traffic control
- Chart flight plan with maps
- Possess quick sensory response time

Motor Skills: The student is required to possess sufficient physical strength, flexibility, and dexterity to operate an airplane, perform gross and fine motor movements, and maintain consciousness and equilibrium to provide safe aircraft operation. The candidate should have full manual dexterity including the functioning of both arms, both wrists, both hands and all fingers. Examples of motor skills include but are not limited to:

- Independently execute all required flight maneuvers including climbs, descents, stalls, turns, take-offs and landings
- Perform manual inspections of the airframe, engine, fuel tanks and oil reservoir requiring the ability to climb while maintaining balance and dexterity

- Respond to engine indications and instruments by making manual adjustments
- Sit for prolonged periods
- Possess quick physical response time
- Activate brake pedals for aircraft steering and braking
- Maintain balance and stability

Intellectual-Conceptual (Thinking) Skills: The student must possess the ability to problem solve, establish a plan of action, set priorities, calculate, measure, analyze and synthesize objective as well as subjective data. These critical skills are essential for applying aviation concepts and technology to safely pilot an aircraft. In addition, the candidate must possess the ability to understand and comprehend three dimensional and spatial relationships. Examples of intellectual-conceptual skills include but are not limited to:

- Read, understand, and follow Farmingdale State College State, and FAA Regulations
- Recognize the design and operation of aircraft components, instruments, and systems
- Evaluate information and conditions to do flight planning, maneuvering, and safety risk management
- Apply principles of flight, weather, aerodynamics, and navigation to complete flight lessons
- Evaluate flight situations and make decisions quickly with sound judgment
- Process multi-sensory input and multi-task simultaneously to maintain positive aircraft control
- Keep up with sequence and pace of instructions

Behavioral-Social Skills: The student must possess emotional stability and flexibility, which will enable them to develop the ability to function effectively in stressful situations. This includes the ability to adapt to changing environments, exercise sound judgment, comprehend constructive criticism, and behave appropriately and safely in a high-risk learning environment. Examples of these Behavioral-Social skills include but are not limited to:

- Work independently with minimal or no supervision
- Follow through with individual responsibilities
- Evaluate information and conditions to do flight planning, maneuvering, and safety risk management
- Exercise good judgment
- Ability to think and act rationally during stressful situations
- Comply with drug-free requirements and testing
- Demonstrate appropriate behavior towards staff, and peers according to societal norms
- Accepting constructive criticism

Environmental Tolerance Skills: The student must be able and willing to work in a flight training environment for prolonged periods of time. Examples of these Environmental Tolerance Skills include but are not limited to:

- Changes in altitudes
- Changes in temperature n Changes in air pressure n Extreme noise
- Gas and Fumes
- Moving objects and vehicles
- Slippery or uneven surfaces
- Variations of lighting

FAA Medical Certificate Standards: Please keep in mind that you will have to fulfill additional requirements to be eligible for certification exams or licensure in the field. A medical exam administered by an FAA Aviation Medical Examiner is required prior to flight training. Students must be able to obtain a 1st, 2nd or 3rd class FAA medical certificate. For students pursuing flight as a career choice the department strongly recommends students obtain a 1st class medical certificate. The requirements for medical standards are listed in the Code of Federal Regulations Title 14 Part 67. For specific information on medical standards required for obtaining licenses and ratings through an Aviation Medical Examiner, or to locate an Aviation Medical Examiner in your area, go to www.faa.gov/pilots/amelocator/.

Alien Flight Student Program (AFSP): The mission of the Alien Flight Student Program (AFSP) is to ensure that foreign students seeking training at flight schools regulated by the Federal Aviation Administration (FAA) do not pose a threat to aviation or national security. Section 612 of the Vision 100 - Century of Aviation Reauthorization Act (Public Law 108-176, December 12, 2003) prohibits flight schools regulated by the Federal Aviation Administration (FAA) from providing flight training to a foreign student unless the Secretary of Homeland Security first determines that the student does not pose a threat to aviation or national security. Vision 100 transferred responsibility for conducting security threat assessments for foreign students seeking flight training from the Department of Justice to the Department of Homeland Security. On September 20, 2004, the Transportation Security Administration (TSA) issued an interim final rule establishing the Alien Flight Student Program (AFSP).

Legal notices are available on the Candidate and Provider menus. These include the notices about the Vision 100 - Century of Aviation Reauthorization Act, Paperwork Reduction Act, Information Verification, and Privacy and Security within the AFSP website. For more information, first review the Flight Training for Aliens and Other Designated Individuals; Security Awareness Training for Flight School Employees Interim Final Rule (IFR) 49 CFR 1552. The rulemaking docket is available at www.regulations.gov. For the AFSP rulemaking docket, click on "Simple Search" and then enter the docket number for the AFSP rulemaking docket (19147) and click on "Search".

If you have further questions regarding legal notices on AFSP policy, please send questions with all relevant details by email to AFSP.Help@dhs.gov.

Disability Accommodations: We have developed our technical standards in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. We will provide reasonable accommodations to qualified students with disabilities. The College may not make inquiry regarding a prospective student's disability status prior to admission to the institution. However, students may choose, at any time during their association with the College, to disclose a documented disability. Students should be aware that certain disabilities and/ or their mitigating therapies might delay or preclude their participation in some of the College's programs of study due to regulatory limitations of the Federal Aviation Administration. Students are encouraged to discuss these concerns with an Aviation Medical Examiner or directly with the FAA in Oklahoma City, OK by phoning (405) 954-4821.

Farmingdale State College will provide reasonable accommodations but is not required to substantially alter the requirements or nature of the program or provide accommodations that inflict an undue burden on the College. In order to be admitted one must be able to perform all of the essential functions with or without reasonable accommodations. However, due to the rigors of the curriculum and the immense responsibility for safe aircraft operation a student can be denied admission to the Pro-Pilot program or disenrolled from the program if accommodating the student's disability would pose a direct threat to aircraft safety or would compromise the academic integrity of the program. If an individual's health changes during the program of learning, so that the essential functions cannot be met with or without reasonable accommodations, the student may be withdrawn from the Pro- Pilot program.

Graduation Requirements: All Pro-Pilot Majors must have all FAA certificates/ratings required prior to graduation. Grades earned are issued upon obtaining the FAA certificate/rating specified in the course. FSC Professional Pilot and Aviation Flight Minor students must demonstrate safe practices, good judgment, and sound aeronautical decision-making (ADM) as specified in the FSC Flight Operations Manual and the FAA Pilot's Handbook of Aeronautical Knowledge for ALL flights flown as a pilot during the period of their enrollment. This includes piloting aircraft that are not owned or operated by FSC. All flights by FSC enrolled flight students are subject to examination by the Chief Flight Instructor.

If at any point during your tenure with Farmingdale State College you fail to meet our safety and technical standards, the Aviation Center Management reserves the right to no longer provide you flight training. Only students who adhere to these behavioral-social skills standards and the rules/ policies of our Flight Operations Manual are eligible for the Professional Pilot Degree or Aviation Flight Minor. Any student who fails to meet these standards while piloting any aircraft (whether FSC owned/operated or other) during their enrollment at Farmingdale State College may be removed from the Professional Pilot or Flight Minor program.

An admissions interview may be conducted at the discretion of Aviation Center management prior to allowing a student to flight train at Farmingdale State College.

Mechanical Engineering

All students in the Mechanical Engineering Technology program at Farmingdale State College must meet the safety and technical standards in the following areas: communication, observation, motor, and intellectual-conceptual attributes.

Communication Skills: The student must possess the ability to communicate effectively using reasonable grammar and syntax in both oral and written formats. In addition, the student must notice and appreciate

both verbal and nonverbal communication when performing design or manufacturing processes. Examples of communication skills include but are not limited to:

- Read and comprehend technical manuals, drawings, manufacturer's specifications, instructions, and warning labels in the prevailing language of United States codes, standards, and licensure
- Effectively report to the supervisor for any manufacturing related issues.
- Accurately explain manufacturing processes of mechanical components.
- Present experimental results to supervisor and/or peers

Sensory Observation Skills: Students must be able to make independent observations and assessments when operating testing equipment or machines. Student must have the functional use of the senses of vision, touch, hearing, and smell which are necessary in assessing and maintaining work environment safely. Examples of sensory observation skills include but are not limited to:

- Perform visual inspections on lathe and milling machines
- Possess appropriate sensory response time
- Detect and respond to auditory signals from testing equipment or machines

Motor Skills: The student is required to perform gross and fine motor movements, maintain consciousness and equilibrium, and possess the physical strength and stamina which are necessary to operate testing equipment or machines safely. Examples of motor skills include but are not limited to:

- Install cutting tools in lathe and milling machines
- Inspect mechanical components using measurement tools
- Connect hoses in pneumatic and hydraulic control circuits
- Connect wires between programmable logic controller PLC and solenoid valves

Intellectual-conceptual skills: The student must possess the ability to problem solve, establish a plan of action, set priorities, calculate, measure, analyze and synthesize objective as well as subjective data in order to apply mechanical and manufacturing concepts and technology to safely operate testing equipment or machines. In addition, the student must possess the ability to understand and comprehend three dimensional and spatial relationships.

Wind Turbine Technology
All students in the Wind Turbine Technology Certificate program at Farmingdale State College must meet the safety and technical standards in the following areas: communication, observation, motor, and intellectual-conceptual attributes.

Communication Skills: The student must possess the ability to communicate effectively using reasonable grammar and syntax in both oral and written formats. In addition, the student must notice and appreciate both verbal and nonverbal communication when performing design or manufacturing processes. Examples of communication skills include but are not limited to:

- Read and comprehend technical manuals, drawings, manufacturer's specifications, instructions, and warning labels in the prevailing language of United States codes, standards, and licensure
- Effectively report to the supervisor turbine-related issues.
- Present testing results to supervisor and/or peers

Sensory Observation Skills: Students must be able to make independent observations and assessments when operating testing equipment or machines. Student must have the functional use of the senses of vision, touch, hearing, and smell which are necessary in assessing and maintaining work environment safely. Examples of sensory observation skills include but are not limited to:

- Perform visual inspection on turbine and nacelle components
- Possess appropriate sensory response time
- Detect and respond to auditory signals from testing equipment or machines

Motor Skills: The student is required to perform gross and fine motor movements, maintain consciousness and equilibrium, and possess the physical strength and stamina which are necessary to operate testing equipment or machines safely. Examples of motor skills include but are not limited to:

- Inspect mechanical components using measurement tools
- Connect hoses in pneumatic and hydraulic control circuits
- Connect wires between programmable logic controller PLC and solenoid valves

Intellectual-conceptual skills: The student must possess the ability to problem solve, establish a plan of action, set priorities, calculate, measure, analyze and synthesize objective as well as subjective data in order to apply technical concepts and to safely operate testing equipment or machines. In addition, the student must possess the ability to understand and comprehend three dimensional and spatial relationships.

Environmental Tolerability: Students must have the ability and willingness to climb towers up to 300 feet, the ability to lift and manage up to 50 pounds, and the ability and willingness to transfer to/from boats and travel via boat to offshore towers.

Important Consideration: Addition screening may be required by employers following graduation including toxicology tests. In addition, specialized physical training such as GWO Basic Skills courses require participants to weigh less than 275 pounds.

It is the policy of Farmingdale State College to comply with the Americans with Disabilities Act of 1990, Section 504 of the Rehabilitation Act of 1973, and other applicable federal and state regulations that prohibit discrimination on the basis of disability. Otherwise qualified individuals shall not be excluded from participation solely by reason of their disability or medical condition.

Students enrolled at FSC are responsible for requesting accommodations, and for providing the appropriate and required documentation of the disability in a timely manner to Disability Services Center.

The Technical Standards are intended to inform students of the skills, abilities, and behavioral expectations required in this program with or without reasonable accommodation. The Technical Standards reflect performance abilities and characteristics that are necessary to successfully complete the requirements of this program. If you feel you are unable to meet the Technical Standards because of a disability, you are encouraged to discuss your concerns with Disability Services Center.

NYS MANDATORY LICENSURE DISCLOSURES

Aeronautical Science Professional Pilot

Effective July 1, 2024, federal regulation requires institutions of higher education to make a determination whether a Title IV eligible academic program that leads to professional licensure or certification meets the educational requirements for licensure/certification in the U.S. State where the institution is located and the U.S. States where "distance education" students are located at the time of initial enrollment in the program, as well as U.S. States where the program is advertised as meeting such requirements, and if applicable, the U.S. State where students attest they intend to be licensed/certified. The Aeronautical Science Professional Pilot program at Farmingdale State College is registered by the New York State Education Department and thus meets the educational requirements for licensure/certification for New York State. Through a good faith effort, and for the purpose of complying with the federal regulation, we have determined that Aeronautical Science Professional Pilot program at Farmingdale State College meets the educational requirements for licensure/certification in certain other U.S. States. For a complete list, please visit the College's Professional Licensure Disclosures page. It is important to note that Farmingdale State College is not the licensure/certification authority in these U.S. States and cannot assess whether an individual candidate will be issued a license/certificate in these U.S. States and instead it is incumbent on each individual candidate to contact the licensure/certification authority in the applicable U.S. State for any further guidance on the requirements for licensure/certification requirements and application processes.

Medical Laboratory Science

Effective July 1, 2024, federal regulation requires institutions of higher education to make a determination whether a Title IV eligible academic program that leads to professional licensure or certification meets the educational requirements for licensure/certification in the U.S. State where the institution is located and the U.S. States where "distance education" students are located at the time of initial enrollment in the program, as well as U.S. States where the program is advertised as meeting such requirements, and if applicable, the U.S. State where students attest they intend to be licensed/certified. The Medical Laboratory Science Program at Farmingdale State College is registered by the New York State Education Department and thus meets the educational requirements for licensure/certification for New York State. Through a good faith effort, and for the

purpose of complying with the federal regulation, we have determined that Medical Laboratory Science at Farmingdale State College meets the educational requirements for licensure/certification in certain other U.S. States. For a complete list, please visit the College's Professional Licensure Disclosures page. It is important to note that Farmingdale State College is not the licensure/certification authority in these U.S. States and cannot assess whether an individual candidate will be issued a license/certificate in these U.S. States and instead it is incumbent on each individual candidate to contact the licensure/certification authority in the applicable U.S. State for any further guidance on the requirements for licensure/certification requirements and application processes.

Nursing

Effective July 1, 2024, federal regulation requires institutions of higher education to make a determination whether a Title IV eligible academic program that leads to professional licensure or certification meets the educational requirements for licensure/certification in the U.S. State where the institution is located and the U.S. States where "distance education" students are located at the time of initial enrollment in the program, as well as U.S. States where the program is advertised as meeting such requirements, and if applicable, the U.S. State where students attest they intend to be licensed/certified. The Nursing Program at Farmingdale State College is registered by the New York State Education Department and thus meets the educational requirements for licensure/certification for New York State. Through a good faith effort, and for the purpose of complying with the federal regulation, we have determined that Nursing at Farmingdale State College meets the educational requirements for licensure/certification in certain other U.S. States. For a complete list, please visit the College's Professional Licensure Disclosures page. It is important to note that Farmingdale State College is not the licensure/certification authority in these U.S. States and cannot assess whether an individual candidate will be issued a license/certificate in these U.S. States and instead it is incumbent on each individual candidate to contact the licensure/certification authority in the applicable U.S. State for any further guidance on the requirements for licensure/certification requirements and application processes.

Dental Hygiene

Effective July 1, 2024, federal regulation requires institutions of higher education to make a determination whether a Title IV eligible academic program that leads to professional licensure or certification meets the educational requirements for licensure/certification in the U.S. State where the institution is located and the U.S. States where "distance education" students are located at the time of initial enrollment in the program, as well as U.S. States where the program is advertised as meeting such requirements, and if applicable, the U.S. State where students attest they intend to be licensed/certified. The Dental Hygiene Program at Farmingdale State College is registered by the New York State Education Department and thus meets the educational requirements for licensure/certification for New York State. Through a good faith effort, and for the purpose of complying with the federal regulation, we have determined that Dental Hygiene at Farmingdale State College meets the educational requirements for licensure/certification in certain other U.S. States. For a complete list, please visit the College's Professional Licensure Disclosures page. It is important to note that Farmingdale State College is not the licensure/certification authority in these U.S. States and cannot assess whether an individual candidate will be issued a license/certificate in these U.S. States and instead it is incumbent on each individual candidate to contact the licensure/certification authority in the applicable U.S. State for any further guidance on the requirements for licensure/certification requirements and application processes.

CAMPUS RESOURCES

THE MEMORIAL GALLERY

The Memorial Gallery is an exhibition space located within the Visual Communications Department in Hale Hall. The Gallery plays a vital role in showcasing a variety of designers and artists whose work and careers are relevant to our students' future. The works exhibited represent a wide range of media, cultures, and time periods in the visual arts. The Gallery complements the exhibits with artist lectures, workshops, films, demonstrations, and other educational programs. The Gallery's mission is to enhance the teaching and learning of the visual arts and to serve as a visual and cultural resource to the campus and surrounding community.

OFFICE OF INTERNATIONAL EDUCATION PROGRAMS (OIEP)

International Students:
The Office of International Education and Programs (OIEP) provides a variety of services for all International Students. The OIEP supplies accepted International Students with the necessary forms which enable them to attain an F-1 or J-1 student visa.

The OIEP provides counseling and assistance to International Students seeking a change of status or applying for special benefits such as on campus work authorization and Optional Practical Training and Academic Training. The OIEP provides programs for International Students to facilitate their transition to American education and culture.

The OIEP operates as a U.S. Department of Justice-approved program responsible for reporting student status each semester to the U.S. Immigrations and Customs Enforcement (ICE) of the U.S. Department of Homeland Security through the Student & Exchange Visitor Information Systems (SEVIS).

INSTITUTE FOR NETWORKING SYSTEMS TECHNOLOGY AND EDUCATION PROGRAMS

The Institute for Networking Systems Technology and Educational Programs (INSTEP) in the Pasternack School of Engineering Technology offers credit bearing and non-credit bearing courses in the latest Networking Technologies. Credit bearing courses are offered cooperatively with the Computer Systems Department. These courses can be used as electives in several bachelor degree programs on campus. They can also be applied toward Network Training Certification as specified by the CISCO Networking Academy, which operates under the Institute. INSTEP conducts campus seminars and workshops in new technology developments in Computer Networking & Communication that are available to both professionals and students. For additional information, contact Alexis Greenidge at greenim@farmingdale.edu.

RENEWABLE ENERGY AND SUSTAINABILITY CENTER MISSION

The mission of the Renewable Energy and Sustainability Center (RESC) is to enhance public awareness of emerging renewable energy resources through a focus on applied research and workforce training in the renewable/sustainable and smart grid technologies. The center is housed in the School of Engineering Technology (SET) and offers complementary training programs in other technology and manufacturing areas to serve the workforce needs of the Long Island.

This mission is achieved through the following objectives:

- Promote applied research in Renewable/Sustainable and Smart Grid Technologies.
- Create a forum for FSC Faculty to develop collaborative research grant proposals in energy related projects and share resources.
- Collaborate with engineering professional societies and local industry as well as the local and regional academic institutions to offer technical seminars and short courses to industry professionals and public in the area of energy, sustainability and engineering education.
- Show case Long Island's first Smart Energy Campus in conjunction with PSEG Long Island, with a focus on smart grid technology, building automation and integration of renewable energy resources.
- Implement live demonstration models emulating customer- owned equipment on renewable energy resources (e.g., wind, solar, plug-in hybrid electric vehicles) with smart grid technology and real time displays.
- Develop "STEM" K-16 student research and training programs for students and teachers, with the goal of integration of energy related projects and curriculum modules into K-16 curriculum.
- Develop certificate-level training programs in renewable energy resources for green technology, power, energy and manufacturing as well as energy security to serve the industry's workforce needs.
- Synergize and incorporate the activities of the Solar Energy Center, Green Building Institute and IRTT into Long Island's Renewable Energy and Sustainability Center (RESC) with focus on solar, small scale wind, geothermal, fuel cell, green data centers, alternative fuel vehicles and smart grids.

COLLEGIATE SCIENCE AND TECHNOLOGY ENTRY PROGRAM (CSTEP)

The Collegiate Science and Technology Entry Program (CSTEP) is a New York State Department of Education Program that helps to increase access and preparation of underrepresented students for STEM (Science, Technology, Engineering and Math) careers and licensed professions. Students in CSTEP receive academic and pre-professional support services including advisement, tutoring, educational workshops and graduate/ medical school visits. Students are also connected to internship and research opportunities have may participate in statewide conferences and competitions.

GREENLEY LIBRARY

The mission of Greenley Library is to enhance academic engagement, contribute to student success, and support teaching and scholarship by providing relevant information resources, responsive services, and innovative spaces to the FSC community. The Library is open seven days a week during the academic year--7:45 am to 11:00pm Monday through Thurs, 7:45am to 5:00pm on Friday, 9:00am to 5:00pm on Saturday, and 1:00pm to 9:00pm on Sunday. Holiday, intersession, and summer hours are posted on the Library website.

Seating for up to 400 students is available in a variety of settings, including the main floor computer lab with 36 desktop computers, printers, and laptops that can be checked out for 4 hours. Librarians provide reference services and instruction on an individual basis, and Information Literacy sessions taught by librarians are held in Greenley 105, a 30-seat computer lab.

The Library's online catalog provides access not only to Greenley's own collection, but also to the collections of all SUNY campuses. Students may browse our 70,000 print volumes, and can request items from other libraries using Interlibrary Loan. The SUNYConnect program allows students to borrow materials from other SUNY libraries in-person with a Farmingdale student ID card. Farmingdale students can also arrange for access to many private university libraries on Long Island through LILRC's Research Loan Program.

Greenley Library subscribes to a wide variety of electronic databases that contain thousands of online journals. These databases can be accessed from off-campus with a Farmingdale username. A portion of our databases are available through Farmingdale's participation in the SUNYConnect program.

INSTRUCTIONAL TECHNOLOGIES SUPPORT CENTER (ITSC)

The Instructional Technologies Support Center integrates existing and emerging instructional technologies into the campus' learning spaces. ITSC staff presently design, install, and maintain the College's Technology Enhanced Classrooms (TECs), offering orientation seminars and emergency technical support. The ITSC also provides technical support for presentation technologies and sound reinforcement for academic and organizational events on campus and manages the distribution and maintenance of all general-use video, audio support and computer display

equipment as well as instructional media equipment installed in all lecture halls and media viewing facilities.

ACCEPTABLE USE POLICY FOR COMPUTER FACILITIES

Introduction
This policy is designed to guide students, faculty, staff and others in the acceptable use of computer and information systems and networks provided by Farmingdale State College. More importantly, it is meant as an application of the principles concerning the use of the network in a legal, ethical, collegial and nondestructive manner.

Guiding Principles
The Farmingdale State College community is encouraged to make innovative and creative use of information technologies in support of education and research. Access to information representing a multitude of views on current and historical issues should be allowed for the interest, information and enlightenment of the Farmingdale State College community. Consistent with other University policies, this policy is intended to respect the rights and obligations of academic freedom. The College recognizes that the purpose of copyright is to protect the rights of the creators of intellectual property and to prevent the unauthorized use or sale of works available in the private sector. Also consistent with other College policies, an individual's right of access to computer materials should not be denied or abridged because of race, creed, color, age, national origin, gender, sexual orientation, or disability.

The College cannot protect individuals against the existence or receipt of material that may be offensive to them. As such, those who make use of electronic communications are warned that they may come across or be recipients of material they find offensive. Those who use e-mail and/or make information about themselves available on the Internet should be forewarned that the University cannot protect them from invasions of privacy and other possible dangers that could result from the individual's distribution of personal information.

Responsibilities
Farmingdale State College reserves the right to monitor its computing resources to protect the integrity of its computing systems, workstations, and lab facilities. Users are responsible for all use of their computer-related accounts (including but not limited to automated, online and system accounts). They should make appropriate use of the system and network-provided protection features and take precautions against others obtaining access to their computer resources. Individual password security is the responsibility of each user. Abuse of computer resources is prohibited. Abuse includes, but is not limited to:

- Using the network for personal profit.
- Attempting to intentionally interfere with the performance of the network
- Interfering with the legitimate work of other users.
- Accessing another individual's account, private files, or e-mail without permission of the owner.
- Misrepresenting one's identity in electronic communication.
- Unauthorized copying or transmission of software.
- Abusing any interconnected network such as the Internet.
- Using the network to attempt to violate any connected computer system's security.
- Using the network to spread computer viruses, trojan horses, worms or any program designed to violate security, interfere with the proper operation of any computer system or destroy another user's data.
- Disobeying lab and system policies, procedures, and protocol.
- Using computing resources to threaten or harass others.
- Using computing resources to propagate electronic chain letters.
- Using computing resources for extensive or competitive recreational game playing. (Recreational game players occupying a seat in a public computing facility must give up the use of the work station when others who need to use the facility for academic or research purposes are waiting.)
- Using the network in a manner that violates any federal, state, or local law.

Administration and Implementation
The College encourages all members of its community to use electronic communications in a manner that is respectful to others. While respecting users' confidentiality and privacy, the University reserves the right to examine all computer files.

The College takes this step to enforce its policies regarding harassment and the safety of individuals; to prevent the posting of proprietary software or electronic copies of electronic texts or images in disregard of copyright restrictions or contractual obligations; to safeguard the integrity of computers, networks, and data either at the College or elsewhere; and to protect the College against seriously damaging consequences. The College may restrict the use of its computers and network systems for electronic communications when faced with evidence of violation of College policies or federal or local laws. The College reserves the right to limit access to its networks through College-owned or other computers and to remove or limit access to material posted on College-owned computers.

All users are expected to conduct themselves consistent with these responsibilities and all other applicable College policies. Abuse of computing privileges will subject the user to disciplinary action, as established by the applicable operating policies and procedures of the College. Abuse of networks or computers at other sites through the use of Farmingdale State College resources will be treated as an abuse of computing privileges at the College.

When appropriate, temporary restrictive actions will be taken by system or network administrators pending further disciplinary action. The loss of computing privileges may result.

When a user ceases being a member of the campus community (e.g., withdraws, graduates, or terminates employment, or otherwise leaves the university), or is assigned a new position and/or responsibilities within the State University system, their access authorization will be reviewed. A member of the campus community may not use facilities, accounts, access codes, privileges or information for which they are not authorized in their new circumstances.

Farmingdale State College recognizes that all members of the college community are bound by federal and local laws relating to civil rights, harassment, copyright, security and other statutes relating to electronic media. It should be understood that this policy does not preclude enforcement under the laws and regulations of the United States of America, the State of New York, the State University of New York or SUNY networking contracts.

Violations
Policy violations by students will be handled in accordance with the Student Code of Conduct and referred to the Dean of Students or designee for disciplinary action as appropriate. Policy violations by College employees will be referred to the head of that employee's department and handled in accordance with disciplinary actions set forth in the Professional Handbook or other appropriate document.

In addition, illegal acts involving Farmingdale State College's computing resources may also subject users to prosecution by state and/or federal authorities.

RAM-BO & CO. - CAMPUS STORE

Ram-Bo & Co. and your Online Bookstore

Ram-Bo & Co., powered by eCampus.com, is FSC's destination retail experience and serves as a convenient pickup location for course materials ordered through the FSC Online Bookstore.

Whether in store or online, Ram-Bo & Co. offers an impressive selection of FSC-branded apparel, accessories, school supplies, and more. Shop on campus in the Campus Center or online at farmingdale.ecampus.com. Visit the website for information on store hours.

All About Your Course Materials
Your professor-selected course materials should be purchased online through FSC's Official Online Bookstore. Students enjoy a variety of benefits when they order through the FSC Online Bookstore:

- Free Shipping to Ram-Bo & Co.*: Have your materials delivered on time, right to campus.
- Price Match Guarantee: Find a better price? We'll match it!
- Return Policy: Order early with peace of mind—returns are accepted up to 30 days after classes begin.
- Wide Selection: Choose from new, used, rental, digital, and Marketplace books to get the best deal.
- Sustainable Choices: Rent your textbooks and save money (and the planet!) with eco-friendly options.

Order your course materials today at farmingdale.ecampus.com.

*Exclusions may apply

Visit farmingdale.ecampus.com/help if you have additional questions.

AUXILIARY SERVICE CORPORATION

The Auxiliary Service Corporation of the State University of New York at Farmingdale is a private not-for-profit organization that is authorized to operate on campus under the terms of an Agreement with the State University of New York. The general purposes of the Corporation are to promote and cultivate educational and social relationships among students, faculty and staff.

In keeping with its mission, the Corporation provides the following campus services:

- **Campus Dining Services** through a sub-contractual arrangement with Aramark
- **Campus Bookstore** through a sub-contractual arrangement with eCampus
- Vending Services through a sub-contractual arrangement with CC Vending Inc.
- **Residence Halls Laundry** facilities through a sub-contractual arrangement with Automated Industries, Inc.
- **Campus Shuttle Bus Service** through a sub-contractual arrangement with Fantastic Tours
- Pouring Rights through a contractual arrangement with The Coca-Cola Company
- Accounting services for the **Farmingdale College Foundation**, **Alumni Association**, **Farmingdale Student Government Association**, Broad Hollow Bioscience Park, Golf Driving Range, and custodial accounts.

The Corporation also has fiscal responsibility for all Student Government Association mandatory fees collected from full- and part-time students, in addition to the receipt and disbursement of funds involving in excess of fifty (50) accounts held as custodial accounts.

CHILDREN'S CENTER

The Children's Center at Farmingdale State is a non-profit center located on the campus of Farmingdale State College. The Center provides a secure and stimulating environment for children from 8 weeks through prekindergarten. Priority is given to children of students, faculty and staff. Community children are also welcome to attend the center.

The Children's Center is a state of the art facility with multiple outdoor play areas including an indoor gym. The Center utilizes the Creative Curriculum for infants through Pre-school. This curriculum encompasses all areas of child development, while incorporating all areas of early learning: pre-writing, pre-math, pre-science, early literacy, music & movement. Teachers in the classroom are facilitators and nurturers, providing children with age appropriate activities, encouragement and support. Our Pre-K program provides children with the skills necessary for kindergarten.

Children engage in learning activities throughout the day and enjoy the outdoors twice daily. Two healthy snacks are included daily. The children engage in activities sponsored by the College as well as enjoy the campus grounds for walks.

During the summer, The Children's Center also has a summer camp program for children.

For more information regarding summer camp and The Children's Center, please call 934-420-2125, email childcare@farmingdale.edu, or visit www.farmingdale.edu/childcare.

SMALL BUSINESS DEVELOPMENT CENTER

The Long Island SBDC hosted by Farmingdale State College is located on the campus of Farmingdale State College and provides free, one-on-one business advising. This free technical assistance is available to anyone who wants to start a business or who already owns a business. Services range from answering startup and business structure questions to assisting with business plans, cash flow projections, marketing plans, and loan information.

Our Mission

The mission of the Long Island SBDC (Farmingdale) is to provide professional business advisement, education, network resources and to advocate for small business and entrepreneurs.

Long Island SBDC hosted by Farmingdale State College Overview

Long Island SBDC (Farmingdale) plays a key role in economic development by providing free, high-quality, technical and management assistance to start-up and existing small businesses. Talented, certified SBDC business advisors are ready to counsel and train you to make your business succeed.

Through direct, one-on-one counseling, the SBDC provides a range of management and technical assistance services and information, including:

- Small Business
- Start-Up
- Business Plan Development
- Organizational Structures
- Financial Planning
- Cost Analysis
- Loan Information
- Marketing Assistance

The Center is open Monday through Friday from 8:30am to 4:30pm, and can be reached at 934-420-2765 or SBDC@farmingdale.edu. Visit the Small Business Development Center webpage for more information.

FARMINGDALE COLLEGE ALUMNI ASSOCIATION

The Farmingdale State College Alumni Association is a 501(c)3, nonprofit organization that cultivates mutually beneficial relationships between Farmingdale State College and a growing community of the more than 100,000 alumni world-wide. The Association keeps our alumni informed, proud, engaged and inspired to support the College. It's programs and services seeks to strengthen alumni bonds of friendship, scholarship and community. The Alumni Association welcomes the resources, talents, and initiatives of alumni and friends to support the Association and the College in achieving their respective missions and goals. The Alumni Association provides a vibrant alumni network and encourages engagement in the life of Farmingdale State College.

FARMINGDALE COLLEGE FOUNDATION

The Farmingdale College Foundation is a 501(c)3 nonprofit organization established in 1969 to support the mission of Farmingdale State College. The Foundation engages alumni, parents, friends and the greater Long Island business community as strategic partners in advancing the mission of College. The core of its efforts, is to inspire and secure philanthropic support for the College and our students, and administer funds for endowments, scholarships and institutional support that enhance the student experience and elevate the profile and reputation of Farmingdale State College. The Foundation designs and implements data-driven fundraising programs to support student financial aid, faculty and staff development, campus beautification, and related campus priorities. The Foundation provides careful and transparent stewardship of all assets held in trust for the benefit of Farmingdale State College.

THE LONG ISLAND EDUCATIONAL OPPORTUNITY CENTER (LIEOC)

The Long Island Educational Opportunity Center (LIEOC), sponsored by Farmingdale State College, delivers comprehensive, community-based academic, workforce development programs and provides support services that lead to social mobility.

Now in its sixth decade of providing tuition-free academic and vocational/workforce development programs to economically and educationally disadvantaged adults, the Long Island EOC offers classes that help eligible students prepare to earn high school equivalency degrees, to improve their English language skills, and/or prepare to enter college or the workforce. Along with their classroom experiences, students receive a myriad of supportive academic services including counseling, college application and job preparation, and placement activities.

Programs being offered include, but are not limited to multiple levels of English as a Second Language, High School Equivalency Preparation, College

Preparation, Army Entrance Test Preparation, Certified Nurse Assistant, Pharmacy Technician, Emergency Medical Technician, Physical Therapy Aide, Home Health Aide, Virtual Assistant Entrepreneur, Administrative Assistant, Electronic Health Records, Office Specialist, Energy Industry Fundamentals, Security Guard, and Visual Technology.

The Long Island EOC serves the wider community through partnerships with local employers, community organizations, and school districts. Whether these partnerships take the form of on-site English language classes at a local manufacturer, or high school equivalency preparation classes or a day-long college-awareness event for area high schoolers, the results are the same: the EOC is reaching out to Long Islanders to help them move forward with their education.

Students who successfully complete the LIEOC's high school equivalency preparation program and who pass the TASC exam are encouraged to apply to college or to continue on into one of the LIEOC vocational/workforce development programs. Many LIEOC students who go on to college are prime referrals to the EOP programs at SUNY's colleges and universities and to EOP programs at private, independent colleges and universities.

MARKETING & COMMUNICATIONS

The Office for Marketing & Communications develops and implements comprehensive marketing and communications strategies closely aligned with the overarching vision of the College. With a team of communications and creative strategists, content developers, designers, and photographer/videographers, the Office oversees and produces advertising, marketing materials and print publications, the FSC website, social media, campus-wide emails, media relations, government relations, and brand management. Marketing & Communications supports academic and administrative departments by conveying a unified and consistent message about FSC's programs and academics, research opportunities, student support and accessibility, campus life, and the critical role the College plays in regional economic development.

STUDENT ORIENTATION

Orientation for new students, including transfer students, is mandatory. Once you are accepted to Farmingdale State College, register for Orientation.

Student orientation activities give valuable information about the College's essential services, and provide the opportunity to meet other new students and learn from presently enrolled student leaders. New students will also be able to meet with faculty members who will advise them about academic program requirements. Becoming a part of the campus community through orientation makes it easier to embark upon a successful college experience.

For more information, you can call the Office of the Dean of Students at 934-420-2104. There is a separate fee for Orientation – please visit www.farmingdale.edu/orientation for up to date details.

RESIDENCE LIFE

Residence Life, located on the first floor of Dewey Hall, coordinates all aspects of living on campus. Any registered FSC student is eligible to live on campus. However, preference for spaces will be given to those students who are matriculated and are full time.

Approximately 600 students live on the Farmingdale campus in our residence halls. The Residence Life program provides a living-learning experience for all students. The goal of the residence program is to provide an on-campus student centered living experience in a clean, safe, and stimulating environment. The residence halls are viewed as an extension of the classroom where learning and socialization takes place. The community atmosphere is conducive to fostering uniqueness and individuality as well as respect for the rights of others.

The Residence Life staff consists of both professional staff members and student staff members. The professional staff are called the Resident Director (RD); they supervise the student staff members, called Resident Assistants. Together, they provide counseling, articulate and set limits for acceptable behavior, and support the health and safety of all who reside in the residence halls. The professional and student staff also develop educational, social and cultural programs to complement the learning that occurs inside of the classroom. Students are encouraged to be active participants in the community.

OFFICE OF STUDENT ACTIVITIES

The Office of Student Activities' mission is to enhance students' experiences beyond the classroom by promoting career, social, and personal development. The office supports campus programming, student organizations, Fraternities & Sororities, the Student Government Association (SGA), and oversees the operations and management of Quintyne Hall. The staff consists of 7 professionals and various student staff members. The staff works with student groups on various items such as event planning, facility reservation, budgeting, leadership development, and teamwork.

The Office of Student Activities hours are Monday – Friday 8:30 a.m. to 5:00 p.m. The office is located in Quintyne Hall, room 111. Phone: 934-420-2103 Email: studentactivities@farmingdale.edu.

Quintyne Hall
Quintyne Hall is the center of campus life and activities. It houses the Office of Student Activities and the Student Government Association. There are two meeting rooms, two small conference rooms, a media lounge, and a recreational space.

The Hours of Operation are:
Monday – Friday: 8:00 a.m. to 12:00 a.m.
Saturday & Sunday: 10:00 a.m. to 7:00 .p.m.
The building is staffed by a student building manager during the posted hours of operation.

Student Government Association
The Student Government Association (SGA) at Farmingdale State College promotes the education, welfare, advocacy and enrichment of the Student Body. It is responsible for allocating the Mandatory Student Activity Fee. SGA also provides leadership and networking opportunities. SGA's office is located in Quintyne Hall, room 118.

Student Clubs & Organizations
There are approximately 70 active clubs and organizations on campus. Please keep in mind that student organizations are entirely initiated and run by the student members and, therefore, sometimes become inactive over the course of a semester or academic year.

For an up-to-date listing of active clubs and organizations, visit RamCentral.

INTERCOLLEGIATE ATHLETICS

The purpose of the Farmingdale State College intercollegiate athletic program is to support and expand the total educational experience of our students. The program, available for men and women, offers student-athletes a wide variety of opportunities for participation. The athletics program carries out the general mission of the College and is designed to educate student-athletes in areas such as: good sportsmanship, leadership, teamwork, health, well-being, loyalty and overall character development.

Farmingdale State College is a Division III member of the NCAA (National Collegiate Athletic Association) offering 18 intercollegiate sports, including:

MEN'S SPORTS	WOMEN'S SPORTS
Baseball	Basketball
Basketball	Cross Country
Cross Country	Indoor Track
Golf	Lacrosse
Indoor Track	Outdoor Track
Lacrosse	Soccer
Outdoor Track	Softball
Soccer	Tennis
Tennis	Volleyball

The College currently holds membership in the Skyline Conference and the NJAC.

Students who are not part of a Varsity team are encouraged to stay involved by way of our interior and exterior athletics facility, the George E. Nold Athletic Complex. The exterior facilities include a baseball stadium, lacrosse/soccer/track complex, 6 tennis courts, multiple practice fields and a softball stadium. The building features classrooms, an athletic training facility, a weight room, racquetball courts, golf simulator, auxiliary gymnasium, and full gymnasium, including a 10 lap-to-the-mile indoor track. The front Weight Room/Fitness Center in Nold Hall is free and open to all Faculty, Staff and Students of Farmingdale State College. All Faculty/Staff/Students must present valid Farmingdale I.D. Cards to use our facilities. No Community or Alumni memberships are available, this is to keep from overcrowding our facility.

There is no admission to the home games. To view game schedules, intramural activities or follow results of all our teams, check out our Athletics website at www.farmingdalesports.com.

CAMPUS RECREATION AND INTRAMURALS

Campus Recreation engages the Farmingdale State College community in co-curricular experiences to inspire lifelong health and well-being. For more information visit Campus Recreation or email us at recreation@farmingdale.edu.

CLUB SPORTS

Club Sports are athletic-based student organizations competing with other colleges and universities. We currently offer badminton, basketball, bowling, cricket, cheer, dance, esports, ice hockey, motorsports, rock climbing, roller hockey, ski and snowboard, soccer, and volleyball.

FITNESS AND GROUP EXERCISE CLASSES

Our classes are drop-in fitness classes designed for participants of all levels. A diverse array of classes are taught throughout the year, including boxing, dance, self-defense, yoga and more.

INTRAMURALS

Intramural Sports are organized sports leagues, one-day tournaments, special events, and online programs which provide participants the opportunity to compete against and engage with their fellow students and the campus community. Popular offerings include basketball, dodgeball, flag football, soccer, softball, volleyball, and more.

EMPLOYMENT OPPORTUNITIES

Student employees are empowered to manage the programs of Farmingdale Campus Recreation and the operations of the Esports Arena located in Quintyne Hall. Build leadership skills and become a member of our team!

UNIVERSITY POLICE

As one of 29 state-operated campuses within the State University of New York system, Farmingdale State College is committed to providing a safe and secure learning environment for students, faculty, staff and visitors. The Farmingdale State College University Police Department operates 24/7/365 with a staff of 25 full-time employees who are professionally trained as New York State certified Police Officers, responsible for patrolling the 380-acre campus, enforcing all New York State laws as well as campus rules and regulations. They are the first responders for the students, faculty and staff on campus for all emergencies.

University Police Officers patrol the campus by vehicle, foot or bicycle at all times. This includes the department's primary jurisdiction consisting of all property owned and/or controlled by the college as well as adjacent and adjoining roadways. In addition to regular campus patrols, the campus residence halls are also monitored through an electronically-controlled card access system.

The University Police Department practices community policing methods, fair and impartial policing principles and provides educational crime awareness, crime prevention and safety programs for students and staff alike. The University Police Department is available to respond to campus incidents 24 hours a day by calling 934-420-2111 and are located across from the BioScience Park, next to the Ornamental Horticulture Gardens.

Pursuant to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, the University Police Department publishes annually the Campus Security and Fire Safety Report which contains the annual crime statistics. Copies of the report may be obtained from www.farmingdale.edu/university-police or contacting the University Police Department.

IDENTIFICATION CARDS

The University Police Department issues identification cards to all faculty, staff, students and other tenants of the campus at the University Police Office during normal business hours. All ID cards must be validated the beginning of each academic year. There is no charge for the initial identification card. Lost ID Cards are replaced at the University Police Office after the replacement fee has been paid. Additional information can be found on the University Police webpage.

PARKING

In addition to the N.Y.S. Vehicle and Traffic Laws, the University Police enforces Parking Regulations promulgated as part of Section 569.1 of the Education Laws. Each individual operating a vehicle on campus is responsible for complying with these regulations. Copies are available at the University Police Office as well as on the University Police Parking and Traffic webpage.

CAMPUS NOTIFICATION OF REGISTERED SEX OFFENDER (MEGAN'S LAW) NEW YORK STATE REGISTERED SEX OFFENDERS NOTIFICATION PROCESS

As a result of an amendment to New York State's Megan's Law, the State University of New York Police Departments will receive direct notification from the Division of Criminal Justice Services (DCJS) when a registered sex offender enrolls, is attending or is employed by a SUNY Campus. This statute authorizes law enforcement agencies that receive notification from DCJS to disseminate relevant information (about the sex offender) at their discretion. The information that can be disseminated to the campus community includes: name, address (either campus or home address) of Level 2 and Level 3 offenders, physical description, crime of conviction, modus operandi, type of victim targeted, special conditions of parole.

Once Farmingdale State College is properly notified by DCJS that a level 2 or level 3 sex offender is registered and is enrolled, attending or employed at the College, an announcement will be posted on the University Police webpage. Details about sex offenders will not be communicated via e-mail messages; rather interested individuals can choose to go to the NYS Sex Registry site via the University Police Web link and learn more about level 3 offenders (level 3 offenders are the only ones reported by the Department of Criminal Justice on this site) and/or make an appointment with the Chief of University Police, so appropriate and allowable information can be shared about level 2 or 3 sex offenders. Please be informed that e-mail or phone call inquiries cannot be accepted on this topic. https://www.farmingdale.edu/university-police/sex-offender-notification.shtml

DEAN OF STUDENTS

The Office of the Dean of Students is probably best known for administering college judicial action, whereas, it is merely one function of the Office. It is more appropriate to view the Office of the Dean of Students as an area of advocacy for students. It is the primary place for students to receive guidance, assistance, resource information, and referral to the appropriate person or office. Located in Dewey Hall, the Office of the Dean of Students additionally coordinates and administers:

- Campus Judicial Procedures
- New Student Orientation
- Student participation in Commencement

The Office of the Dean of Students can be reached at 934-420-2104 or fax at 934-420-2613.

STUDENT CODE OF CONDUCT

Farmingdale State College is committed to providing an environment in which living and learning can occur. In order to function effectively and to provide an educational climate in which members can fulfill their academic pursuits and the educational objectives of the campus community, the college has established guidelines for defining individual rights and responsibilities as outlined in this Student Code of Conduct.

This Student Code of Conduct has been adopted for the purpose of maintaining a quality of life that shares rights, privileges and responsibilities among its citizens, not for the purpose of duplicating public statutes. Respect for the dignity and rights of students, staff, faculty and administration is expected by all individuals and groups in the campus community. Alleged violations of the Student Code of Conduct, local, state or federal statutes on campus will not be tolerated and are subject to the campus judicial process. Each student, as a representative of the College, is expected to uphold the good name of the College and respect the rights and privileges of the College community. As such, incidents which occur off campus that are alleged violations of local ordinances, State or Federal law on or off the College's premises, or at College sponsored or supervised activities where said alleged violations pose a possible threat and/or danger to the safety of the campus community may be adjudicated on campus. The College will exercise this option when:

- The student(s) can be reasonably considered a possible threat and/or clear danger to the safety of the College community.
- The academic integrity, processes and/or functions of the College are violated.

Disciplinary action by the College shall be independent of any criminal or civil proceedings. The campus judicial procedures, established to respond to these alleged violations, do not duplicate public court procedures, but protect the campus community's interests.

The President of the College recognizes the rights of designees including University Police, to enforce all regulations, policies, license agreements, laws and codes on campus. If any individual allegedly violates the laws, Student Code of Conduct or campus policies, a President's designee will institute proceedings against the offenders.
Alleged violation of the law or campus policies may result in EXPULSION/ SUSPENSION from the College and/or other disciplinary action.

Alleged violation of the Student Code of Conduct is listed under two (2) categories: Level I and Level II. Any violation is strictly prohibited and may result in disciplinary action ranging from a warning letter to probation, suspension or dismissal from the College.

The Student Code of Conduct may be found in its entirety in the Student Handbook and on Farmingdale State College website at https://www.farmingdale.edu/dean/policies.shtml.

ACADEMIC INTEGRITY POLICY AND DISCIPLINARY PROCEDURES

Each member of the Farmingdale State College campus community is expected to maintain academic integrity. Farmingdale State College has developed regulations concerning academic dishonesty and integrity to protect all students and to maintain an ethical academic environment. This includes prohibiting any form of academic dishonesty as outlined below.

Academic dishonesty cannot be condoned or tolerated in a college community. Such behavior is considered a violation of the Student Code of Conduct, and students found guilty of committing an intentional act of fraud, cheating or plagiarizing will be disciplined and face penalties.

The College regards academic dishonesty as an intentional act of fraud, in which a student seeks to claim credit for the work or efforts of another individual without correct documentation, or uses unauthorized, undocumented or fabricated information in any academic exercise.

The College also considers academic dishonesty to include forging of academic documents, intentionally impeding or damaging the academic work of others, or assisting other students in acts of dishonesty. Academic dishonesty is divided into four categories which are defined as follows:

- Cheating: Intentionally using or attempting to use unauthorized materials (including all electronic devices), information or study aids in any academic exercise.
- Fabrication: Unauthorized falsification or invention of any information or citation in an academic exercise.
- Facilitating Academic Dishonesty: Knowingly helping someone commit an act of academic dishonesty.
- Plagiarism: Intentionally representing the content (e.g., words, images, sounds, etc.) design, or ideas of another as one's own in any academic exercise. This includes content, design, or ideas in either print or electronic format.

Academic dishonesty is morally wrong, and such behavior interferes with learning and intellectual development. Therefore, all members of the campus community have the responsibility to prevent dishonesty, protect honest students, and enforce campus policies. These responsibilities include but are not limited to the following:

- faculty members have the responsibility to establish standards of academic integrity and disciplinary policies in cases of academic dishonesty (consistent with the standards and policies of the College) and to include a statement of those standards on their course syllabi.
- students have the responsibility to abstain from academic dishonesty or facilitating the dishonest behavior of others.

Violation of the academic integrity policy is strictly prohibited and may result in a disciplinary action ranging from a warning letter to probation, suspension, or dismissal from the College with a permanent transcript notation.

SMOKING AND TOBACCO POLICY

Summary
Farmingdale State College is committed to providing a healthy, comfortable, and safe environment for its students, faculty, staff, and visitors and is implementing a policy of tobacco usage strictly in designated areas.

Farmingdale State College Policy
Farmingdale State College supports an environment where students, employees, and visitors can avoid exposure to second hand smoke and other forms of tobacco usage. Tobacco usage will only be permitted in designated areas that are clearly identified by signage as allowing tobacco usage.

Therefore, tobacco use is prohibited on campus run property including but not limited to:

- All campus owned buildings, classrooms, lecture halls, residence halls, laboratories, offices, work areas, study areas, reception areas, meeting rooms, lobbies, hallways, stairwells, elevators, eating areas, lounges, and restrooms.
- All fields, athletic facilities, outdoor paths, building entrances, walkways, bus stops, and loading docks.
- All vehicles owned and leased by Farmingdale State College.

Designated Areas for Tobacco Use:
Tobacco use is permitted in personal vehicles located in the perimeter parking lots.

- Tobacco use is also permitted at three locations across the campus. These locations are the gazebo adjacent to Orchard Hall, the smoking shelter between the Business School and Knapp Hall, and the smoking shelter between Lupton Hall and Greenley Library. Tobacco use is only permitted in the immediate vicinity of these locations. The locations will have clear signage identifying the area as a designated tobacco usage area.

Applicability
This policy applies to all members of the Farmingdale State College community including but not limited to students, faculty, staff, volunteers, staff employed through contract agencies, vendors, guests, and other visitors.

Definitions
Tobacco use is defined as the usage of tobacco in any form including but not limited to:

- cigarettes, electronic cigarettes, cigars, smokeless tobacco, pipes, water pipes, bongs, vaporizers, and hookahs.

Responsibility
Meaningful and effective implementation of this policy requires the cooperation and compliance of all members of the Farmingdale State College community.

Support and Education
Farmingdale State College understands the addictive nature of tobacco usage and wants to be of assistance for any member of the community who wishes to quit tobacco usage. Students should contact the Health and Wellness Center at 934-420-2009 who will provide tobacco cessation treatment options to them. Employees should contact the EAP office at 934-420-5772 for referrals for smoking cessation programs.

HEALTH AND WELLNESS CENTER

The mission of the Health and Wellness Center (HWC) is to provide high quality, cost effective, medical and wellness services utilizing a holistic philosophy. In collaboration with other campus departments, the HWC employs a multidisciplinary approach to promote overall wellness, supporting the needs of a diverse student population and empower students to achieve their educational goals while becoming active partners in their own health.

The HWC is committed to supporting the physical and emotional well-being of all FSC students. Our team provides a wide range of health services in a caring and confidential environment. Services offered at the HWC include sick/well visits, physical exams, women's health services, immunizations, laboratory services, and addictions counseling.

Hours of Operation:
Monday through Friday, 8:30 a.m. to 4:30 p.m.

Phone: 934-420-2009 | Fax: 934-420-2137

Student Immunization Policy

New York State requires all students born on or after January 1, 1957 to provide proof of immunity to measles, mumps and rubella (MMR). Additionally all students must certify that they have either:

- Received the meningococcal meningitis immunization within the last 5 years, or
- Received and reviewed information provided by Farmingdale State College regarding meningococcal meningitis, understanding the risks of the disease and the benefits of immunization, and have made the choice not to obtain the immunization

A certificate of immunization (required to provide proof of immunity) includes documents such as a certificate from a health care provider, immunization registry record, cumulative health record from a previous school, migrant health record, immunization transfer record, military immunization record, immunization portion of a passport or an immunization record card signed by a health care provider. An immunization record may also show health care provider diagnosis of disease or laboratory evidence of immunity. Immunization records must be signed or stamped by a health care provider. Both of these requirements must be met PRIOR to registration for class.

Proof of immunity for the following diseases must be demonstrated by one of the methods listed below.

MEASLES:

- Two doses of live measles vaccine, with the first dose administered no more than 4 days prior to the first birthday and the second dose administered at least 28 days after the first dose, or
- Physician diagnosis of disease, or
- Serologic (laboratory) evidence of immunity

MUMPS:

- One dose of live mumps vaccine administered no more than 4 days prior to the first birthday, or
- Physician diagnosis of disease, or
- Serologic (laboratory) evidence of immunity

RUBELLA:

- One dose of live rubella vaccine, administered no more than 4 days prior to the first birthday, or
- Serologic (laboratory) evidence of immunity

Please note: Clinical diagnosis of rubella disease is not acceptable as proof of immunity.

EXEMPTIONS FROM IMMUNIZATIONS

1. A medical exemption must be written by a physician, physician assistant, or nurse practitioner and state that a valid contraindication to vaccination exists. The exemption must specify which immunizations are contraindicated, the medical reason for each and the duration of the contraindication.
2. A religious exemption is a written and signed statement from the student (parent or guardian of students less than 18 years of age) that he/she objects to immunization due to his/her religious beliefs.

PROCEDURES:
Students must submit immunization records to the Health and Wellness Center in *one* of the following ways:

1. Upload documentation to your student patient portal at myhealth.farmingdale.edu using your single sign on
2. Email to: Wellness@farmingdale.edu
3. In person at the Health and Wellness Center
4. Fax to: 934-420-2137
5. Mail to: Health and Wellness Center 2350 Broadhollow Road, Farmingdale, NY 11735

Please allow two business days for records to be processed prior to registering for classes.

CAMPUS MENTAL HEALTH SERVICES

Campus Mental Health Services (CMHS) provides a wide range of mental health services at no cost to registered students. CMHS follows accepted professional standards for privacy and confidentiality; offering services for individuals, couples, and groups, while making every effort to arrange meeting times that are convenient for students. CMHS addresses areas including, but not limited to: anxiety and stress management, coping and problem solving skills, relationship issues, depression, family crisis, trauma and loss, adjustment to college life and living, anger management, and substance use & abuse. CMHS offers a wide range of educational and personal growth oriented programs throughout the year in settings such as classrooms, residence halls, and the Campus Center meeting rooms to provide members of the campus community with opportunities to meet personal needs and enhance development. In addition, CMHS serves as a liaison and information source for students whose needs may best be met by resources in the local community, and strives to provide prompt response to urgent personal and community situations that may arise.

For further information, call 934-420-2006 or e-mail counseling@farmingdale.edu.

Campus Mental Health Services is located in Dewey Hall, ground floor; open Monday - Friday, 9:00 a.m. to 4:45 p.m., and selected evenings by appointment only. CMHS staff is available 7 days a week, 24 hours a day in an urgent situation by calling University Police at 934-420-2111.

DISABILITY SERVICES CENTER

The Disability Services Center (DSC) is committed to ensuring a comprehensively accessible college experience for all. We are dedicated to the principle of equal opportunity, enabling every student to realize their fullest academic potential. Our services are designed to meet the unique educational needs of currently enrolled students with documented permanent or temporary disabilities. The DSC's primary goal is to facilitate independence and ensure individuals with disabilities have the same access to the college's programs, opportunities, and activities as all other students.

Students who wish to receive services and academic accommodations must formally register with the DSC. This process involves completing a intake form and submitting current, relevant documentation of your disability. Once registered, a DSC Counselor will work with you to develop an appropriate and individualized accommodation plan.

The Disability Services Center is located in Whitman Hall room 186D and the testing center in Whitman Hall room 183. The center and testing room are open year-round, 8:30-4:00pm Monday through Friday. The Disability Services Center can be reached by telephone at 934-420-5174 or email dsc@farmingdale.edu. For testing concerns, email testing@farmingdale.edu.

BASIC NEEDS TEAM

The State University of New York and Farmingdale State College are committed to supporting the basic needs of students so that any hurdle therein will not be a barrier to their academic success. Currently operating under the Office of Student Affairs, the Basic Needs Team provides support with food insecurity, housing insecurity, and other challenges that may impede the ability to complete the semester successfully. Our resources are designed and intended to offer short-term relief while we help you achieve a long-term solution.

NEXUS CENTER FOR APPLIED LEARNING & CAREER DEVELOPMENT

The Nexus Center is located in Greenley Hall, Lobby Level, Southside Outside Entrance. For more information, visit our website or call 934-420-2296.

The Nexus Center helps students connect to opportunities, including jobs (part-time, full-time, summer, post-grad) and Applied Learning experiences, such as internships for academic credit. By integrating Applied Learning and Career Development, students hone their skills, enhance professional networks, and become stronger candidates for employment.

Career Development services include career and applied learning counseling, resume and cover letter review, workshops, career assessments, and recruiting events, such as job fairs. Meeting with a Nexus Center Counselor early during college is an excellent way to integrate your academic choices with exploring and realizing career goals.

Register for a CareerConnect account to make an appointment to meet with a Counselor, to apply to opportunities through our job postings system, and to access other services.

Applied Learning Graduation Requirement
Applied Learning involves applying classroom knowledge and skills in practical hands-on environments, including internships, clinical placements, practicums, community service, undergraduate research, and study abroad.

All baccalaureate students are required to fulfill the Applied Learning Graduation Requirement. This can be achieved through designated Applied Learning full or enhanced courses satisfying the requirement or by successfully completing a minimum of ten hours of pre-approved Applied Learning co-curricular activities.

For additional information about Applied Learning, satisfying the graduation requirement and log-in information for Axiom, our online applied learning platform, visit the Applied Learning website.

OFFICE OF COMMUNITY & CIVIC ENGAGEMENT

The Office of Community & Civic Engagement (OCCE) aims to foster and develop the next generation of community leaders. The OCCE supports community engagement efforts through a range of activities that promote social action, faculty scholarship and service, student leadership and community partnerships. In addition, the OCCE maintains the college's Carnegie Classification for Community Engagement, an elective designation for institutional commitment to community engagement given by the Carnegie Foundation.

For additional information, visit the OCCE webpage.

STUDENT SUCCESS AND ADVISING CENTER

The Student Success and Advising Center (formerly known as the Academic Advisement & Information Center), partnering with departmental faculty and professional advisors, provides guidance and essential resources to help ensure the academic success of all students at Farmingdale State College. Students will learn to access college services and resources and obtain timely information about special activities and events on the campus. Appointments to meet with an advisor can be made on our website or by phone.

Services and information available to students include:

- Academic advisement, planning, course selection and registration
- Assistance with understanding your degree requirements using Degree Works (DW)
- Advisement for students on Academic Warning and Academic Probation, or recipients of an Early Warning letter
- Provide information on how to change your major or declare a minor
- Workshops and programs offered to enhance college skills: test taking, study skills and time management workshops
- Guidance for Non-Matriculated students
- Exploring study abroad opportunities and learning about the Disney College Program

Email: advisement@farmingdale.edu
Tel: 934-420-5160

INTERINSTITUTIONAL PARTNERSHIPS

The Interinstitutional Partnerships program with Nassau Community College provides students with seamless transfer pathways to continue their education and pursue their academic and professional goals. Through collaborative partnerships between institutions, the program offers accessible bachelor's degree completion opportunities, individualized academic support, and convenient course delivery tailored to community college graduates. Students benefit from rigorous academic instruction, clearly defined degree pathways, and the opportunity to complete their bachelor's degree close to home while gaining the knowledge and skills needed for success in an evolving workforce.

OFFICE OF PROFESSIONAL AND CONTINUING EDUCATION (PACE)

The Office of Professional and Continuing Education (PaCE) at Farmingdale State College provides accessible, career-focused learning opportunities for individuals, employers, and community partners. PaCE offers professional certificates, workforce training, corporate education, and lifelong learning programs designed to support career advancement, skill development, and personal enrichment. Through flexible, high-quality programming, PaCE helps learners gain practical knowledge and credentials aligned with today's workforce needs.

OFFICE OF UNDERGRADUATE RESEARCH & SCHOLARSHIP (OURS)

The Office of Undergraduate Research and Scholarship (OURS) at Farmingdale State College enriches the undergraduate experience by expanding access to research, scholarship, and creative inquiry for the FSC undergraduate community. Through mentorship, programming, funding support, and partnerships across campus and beyond, OURS connects students with meaningful research opportunities both on and off campus. These experiences help students build the skills, confidence, and professional perspective needed to contribute to their fields and prepare for graduate study, careers, and civic engagement.

HONORS PROGRAM

Deeply rooted in our mission as one of SUNY's premier technological colleges focused on applied learning, the Honors Program affords students a dynamic and vibrant academic experience epitomized by a shared commitment to excellence. The Honors Program combines academic rigor in and out of the classroom, connection to community on and off campus, and access to prestigious scholarships, fellowships, and undergraduate research opportunities into one program spanning the course of a student's college career. Limited to just 20 accepted students per year, the cohort model provides students with opportunities to work intimately with faculty and advisors to build critical thinking and technological competencies necessary to investigate society's greatest challenges from a discipline-specific perspective.

The Honors Program at Farmingdale State College (FSC) creates a unique educational experience through a community of scholars, immersed in critical thinking, experiential learning, and interpersonal expression. It at once values excellence, innovation, fellowship, and community engagement at all levels of society. Through the highest standards of academic integrity, ethical leadership, and commitment to diversity and inclusion, the Honors Program allows our students to develop the tools necessary to not only critique, but also generate solutions to systemic problems as we prepare tomorrow's leaders.

The FSC Honors Program Mission

The Honors Program at FSC aims at enriching the most talented, determined, and inquisitive undergraduate students by providing an environment of intellectual challenges, inspiring independent thinking, and promoting self-discovery. The Honors Program offers students a dynamic community of faculty and students exemplifying a shared commitment to academic excellence. This program provides specialized and targeted coursework, laboratories, field experiences, and research in a curriculum designed to meet students' needs and thirst for knowledge. The result is a transformative experience that promotes FSC's commitment to student-centered learning and inclusiveness which prepares graduates to be exemplary citizens equipped to excel in a competitive, diverse, and technologically dynamic society.

For more information and program requirements, visit the Honors Program page.

EDUCATIONAL OPPORTUNITY PROGRAM (EOP)

The Educational Opportunity Program (EOP) is an academic and financial aid program that provides admission and ongoing support to eligible disadvantaged students who demonstrate the potential to succeed in college. The EOP provides students with academic and career counseling; advocacy; and referrals when appropriate. Eligible students also receive an EOP grant added to their financial package. Students are also provided with various academic support services including tutoring and skill building workshops. All incoming EOP freshman will participate in a mandatory residential summer orientation program designed to strengthen skills and aid in their transition to college. The EOP office is located in Knapp Hall, Suite 115.

For additional information on service and eligibility, visit the Educational Opportunity Program webpage.

ACCELERATING COMPLETION THROUGH ENGAGEMENT (ACE)

The SUNY Advancing Completion through Engagement (ACE) program at Farmingdale is a holistic support program that aims to promote on-time bachelor's degree completion for students who have demonstrated financial need. Students in ACE receive the following services:

- Individualized counseling
- Financial support (up to $1,250 per academic year)
- Leadership and career development opportunities
- Peer mentoring services

For additional information on services and eligibility, visit the ACE webpage.

TRIO STUDENT SUPPORT SERVICES

TRiO is a federally funded support services program designed to support the academic success of a select group of students who meet at least one of the following criteria:

- First-generation (neither parent/guardian has earned a four- year baccalaureate degree)
- Low income (as determined by federal TRiO guidelines)
- Have a documented disability

Services provided to chosen participants include a free residential Summer Bridge Orientation Program for incoming first-year students, a specialized two-semester First-Year Experience course, career exploration and planning (including graduate school preparation), academic advising, financial counseling, referrals to tutoring services, opportunities for undergraduate research or internships, cultural activities, and mentoring. TRiO is located in Knapp Hall, Suite 128. Tel: 934-520-5152.

For additional information on TRiO services and eligibility, visit the TRiO webpage.

PRE-HEALTH PROFESSIONS ADVISEMENT

Pre-Health Professions Advisement (PHPA) offers guidance to students preparing for admission to professional schools of medicine (M.D. and D.O.), dentistry, veterinary medicine, physician assistant, chiropractic, pharmacy, optometry, podiatry, physical therapy as well as all allied health disciplines. The office assists in setting up a timeline to application and identifying requirements for application and admission to graduate health programs. Advisement will also include recommended and required courses, letters of recommendation, assistance with personal statement writing, career counseling, interview preparation, assistance with test preparation services, and the opportunity to participate in a comprehensive portfolio review process to ensure a competitive application for graduate health professional programs.

Matriculated students in any undergraduate curriculum, students enrolled in the post-baccalaureate certificate in Sciences for the Health Professions and alumni, may seek advisement by the office. All students must consult with their department advisor regarding their curriculum and/or degree requirements prior to meeting with the PHPA office.

For more information, please visit the PHPA website or call 934-420-2530. The office is located in Hale Hall, Room 114.

THE CENTER FOR ACADEMIC SUCCESS & TUTORING (CAST)

The Center for Academic Success and Tutoring (CAST) is committed to delivering high-quality tutoring and academic support services. The Center provides several support services to currently registered students free of charge. These services are on-campus and online individual tutoring, group sessions, 24/7 online tutoring via Net Tutor, and ongoing campus events. CAST offers academic support in all major areas including math, science, business, economics, engineering, nursing, languages, and computer science in over 100 courses. CAST also oversees the Writing Center and placement for incoming and new transfer students. Located in Greenley Library, CAST is accessible via the elevator to the third floor.

For up-to-date information and hours of operation, please visit the Center website at www.farmingdale.edu/tutoring.

THE WRITING CENTER

The Writing Center is a free service for registered students currently enrolled in courses. Peer and professional tutors work with students in a friendly, supportive atmosphere. Our services include individual tutoring both online and on-campus, support for multilingual learners, and asynchronous feedback (WC-PRO) along with events and workshops throughout the academic year.

Our goal is to help students become confident in expressing their own ideas. Whether you are just getting started or want to go from a B+ to an A on a final draft, we assist you at any stage, from thought to page, and welcome all writing projects. The Writing Center is located in the Greenley Hall, Room 318 and can be reached at 934-420-2082 or WritingCenter@farmingdale.edu.

For the latest information and hours of operation, please visit the Writing Center website.

VETERAN SERVICES

The Office of Veterans Services has been established to assist veterans and/or their eligible dependents. The Office of Veterans Services coordinates all interaction between the student veteran and the college. Help is offered in areas from admissions and registration to student accounts and course advisement. Acting as a liaison and advocate for the student veteran is of paramount importance in ensuring that the veteran remains at Farmingdale until they receive their degree. The office is also the primary entity behind the Farmingdale chapter of Student Veterans of America. The club focuses on social interaction between veterans and non-veterans alike as well as running fund raisers for various veterans related charities in the region and nationwide.

All applications for VA benefits must be filed through the VA's website at www.gibill.va.gov. Those eligible to receive benefits must remain in good academic standing and comply with the academic standards for New York State programs. Military coursework may be eligible for college credit. Veterans should contact the transfer credit coordinator at 934-420-2643 to determine eligibility. The Farmingdale State College Office of Veterans Services follows the guidelines laid out in Executive Order 13607.

Upon admission to the College, veterans should contact the Director of Veterans Services at 934-420-5168 to determine how to apply for the GI Bill® and related benefits. Once eligibility has been determined by the Department of VA Education, veterans should contact the School Certifying Officials in the Registrar's Office at 934-420-2776. Veteran students utilizing VA Educational Benefits (CH 33, 31, 30, 1606, 1607, 35) will receive priority registration for all terms. Any changes in the status of the student must be reported to the Veterans Administration within thirty days. In compliance with this requirement, Farmingdale State College monitors the academic progress of all student veterans. For questions regarding VA benefit certification, please contact the School Certifying Officials in the Registrar's Office at 934-420-2776.

In accordance with Title 38 US Code 3679 subsection (e), FSC adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) GI Bill® (Ch. 33) or Vocational Rehabilitation and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent nor delay the student's enrollment;
- Assess a late penalty fee to the student;
- Require the student to secure alternative or additional funding;
- Deny the student access to any resources available to other students who have satisfied their tuition and fee bills to the institution, including but not limited to access to classes, libraries, or other institutional facilities.

However, to qualify for this provision, such students may be required to:

- Produce the Certificate of Eligibility by the first day of class;
- Provide written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA).

DISTANCE LEARNING

Distance Learning at Farmingdale State College

The Office of Distance Learning at Farmingdale State College provides technical support to students and faculty for the college's learning management system, Brightspace, and all of the related software applications used in Brightspace. Students enrolled in online courses are also eligible for virtual services from the college, including mental health and tutoring services, library services, and other college services. Additionally, students in online degree programs at FSC are eligible for support from the Online Student Concierge. All students can submit support tickets for Brightspace and other learning technologies to distancelearning@farmingdale.edu.

Students Residing Outside New York State and taking Distance Learning Courses at Farmingdale State College
Farmingdale State College is a member of the National Council for State Authorization Reciprocity Agreements (NC-SARA) and follows the complaint resolution policies and procedures outlined within the SARA Policy Manual. Consumer protection complaints resulting from distance education courses, activities, and operations may be submitted to distancelearning@farmingdale.edu for investigation and resolution.

If a student is dissatisfied with the campus-based resolution, a concern may be submitted to System Administration of the State University of New York as outlined in the SUNY Student Concerns policy. And, if still not satisfied, a complaint may be submitted, within two years of the incident about which the complaint is made, to the New York State Education Department as outlined on theirSARA-Student Complaint Process webpage.

Please note, this process is only for consumer protection issues (for examples, see section 4 of the SARA Policy Manual) and this does not include complaints related to grades or student conduct violations, both of which are to be addressed via non-SARA processes available to FSC students by visiting theOffice of the Dean of Students website. Additionally, this process is only for distance education students located in another SARA-participating state (as of January 1, 2026, this includes all states except California), whereas other distance education students, including those located in New York State, should follow non-SARA processes outlined at theOffice of the Dean of Students website.

STUDY ABROAD OFFICE

The Study Abroad Office (SAO) supports the college's commitment to student-centered learning and inclusiveness that prepares graduates to be exemplary global citizens equipped to excel in a competitive, diverse, and technologically dynamic society. We accomplish this by offering transformative educational opportunities abroad and creating an environment of global learning on campus. Students who study abroad gain confidence, self-awareness, and global perspectives they can rely upon to forge their path into the future.

The SAO advises and prepares students for semester-long or short-term summer or winter study abroad opportunities. Students may choose from hundreds of programs offered throughout the world by Farmingdale State College and other SUNY campuses. Highlights include immersive overseas programs led in the summer and winter by FSC professors (Faculty-Led Programs). For additional information, please visit the Study Abroad Office (Greenley Library, Room 38G), or write to us at studyabroad@farmingdale.edu.

FINANCES: TUITION & FEES

TUITION & FEES

As of the publication of the catalog, tuition and fee amounts are the 2024/25 rates.*

Advance Deposits	
Tuition	$100.00
Room	$50.00

Tuition

In the Fall and Spring terms, students taking 12 or more credits are considered full-time and pay the full-time flat rate. There is no full-time plateau for 12 or more credits in Intersession or Summer.

Undergraduate Tuition- NYS Resident	
Full-Time	$3,535.00/semester
Part-Time	$295.00/credit hour

Undergraduate Tuition- Non NYS Resident	
Full-Time	$8,490.00/semester
Part-Time	$708.00/credit hour

Undergraduate Tuition - Non NYS Resident - Online Program	
Full-Time	$4,240.00/semester
Part-Time	$353.00/credit hour

Graduate Tuition- NYS Resident	
Full-Time	$5,655.00/semester
Part-Time	$471.00/credit hour

Graduate Tuition- Non NYS Resident	
Full-Time	$11,550.00/semester
Part-Time	$963.00/credit hour

For additional information on graduate tuition and fees please see the Graduate Program Information section of this catalog.

Room and Board

Residence Hall	
Single Room	$5,107.00/semester
Double Room	$4,551.00/semester
Residence Hall Damage Deposit	$100.00/academic year
Common Area Damage Deposit	$75.00/academic year
Board ***The prices listed below are from 2025/2026 and are subject to change for the 2026/2027 academic year***	
All Access Plan	$2,999.00/semester
All Access VIP Plan	$3,128.00/semester
Weekly 14 Plan	$2,999.00/semester

Important information about our meal plans:

- Resident students living on campus are required to choose a meal plan
- Freshmen may choose between the All Access or the All Access VIP meal plans
- Upperclassmen can from the All Access, All Access VIP or Weekly 14 meal plans
- If a student does not select a meal plan, they will be placed on the All Access plan, and the charge will automatically be added to the student's bill
- Students may upgrade to the All Access VIP meal plan
- Both meal plans offer unlimited meals in POPs residential dining hall
- The All Access plan offers $150 declining balance, 5 meal plan exchanges per week and 4 guest meals per semester
- The All Access VIP plan offers $200 declining balance, 7 meal plan exchanges per week and 6 guest meals per semester
- The Weekly 14 meal plan offers resident students 14 meals per week (Sunday to Saturday), offers a $300 declining balance, 5 meal exchanges per week and 4 guest meals per semester. Unused meals from one week will not carry forward to the next week.

Note: Unused meals will not roll over from semester to semester. Declining balance dollars will roll over from the fall semester to the spring semester. However, they will not roll over from academic year to academic year and will expire at the end of the spring semester.

For those students with conflicts in class and/or work schedules or any other concerns or questions, please see the Food Service Director. It is the student's responsibility to activate and validate their meal plan card with Campus Dining. The student is also responsible to notify the Residence Life Office or the manager of Campus Dining immediately should there be any problems using their meal plan card or obtaining access to the campus dining facilities. Visit Dining Services and the Resident Student Handbook for more information.

Registration Fees

College Fee	
Full-Time	$25.00/semester
Part-Time	$1.70/credit

Other Registration Charges

Student Activity Fee	
Full-Time	$100.00/semester
Part-Time	$8.00/credit hour
Health Service Fee	
Full-Time	$172.00/semester
Part-Time	$14.30/credit hour
NOTE: Please be aware that this is not health insurance	
Intercollegiate Athletic Fee	
Full-Time	$215.00/semester
Part-Time	$17.90/credit hour
Recreation Fee	
Full-Time	$10.00/semester
Part-Time	$0.80/credit hour
Technology Fee	
Full-Time	$222.00/semester
Part-Time	$18.50/credit hour
Transportation Fee	
Full-Time	$24.00/semester

Part-Time	$2.00/credit hour
Transcript Fee	
Semester	$10.00/semester
Program Specific Fees	
Flight Fees	$10,000.00/semester
Special Course Fees	For the specific courses, please go to Lab/Course and First Day/ Inclusive Access Fee Information
First Day/Inclusive Access Fee	For the specific courses, please go to Lab/Course and First Day/ Inclusive Access Fee Information

In some curricula and/or courses additional costs to the student may be assessed. Refer to FEES section for details.

Credit by Evaluation	
Per Credit	$40.00/per credit
If services of a consultant are required, a fee of $60.00 is charged.	

International Student Insurance	
Fall	$1,066.67
Spring	$1,052.73
Spring/Summer	$1,478.01

Other Registration Charges	
Payment Plan Set-Up Fee	$25.00
Late Registration Fee	$30.00
Late Payment Fee	Up to $50.00 per occurrence depending on liability
Program Change (Drop/Add Fee)	$20.00

Fines and Fees	
ID Card Replacement	$25.00
Return Check Charge	$20.00
Alumni Fee (optional)	$50.00 lifetime membership
Vehicle Parking Permit (per vehicle)	$30.00/academic year
Parking Citation	$35.00/violation
Parking Citation (Handicapped)	$150.00/violation
Parking Citation Late Fee	$15.00/after 20 days unpaid
Impound Vehicle Storage Fee	$10.00/day
Boot Fee	$35.00
Temporary Parking Permit Fee	$2.00/day

**Please note that tuition and fees are subject to change without notice by action of Farmingdale State College and/or SUNY Board of Trustees.*

Total Estimated Budget

Estimated expenses per academic year:

	NYS Resident	Non-NYS Resident
Tuition	$7,070.00	$16,980.00
Fees	$1,556.00	$1,556.00
SUBTOTAL	$8,626.00	$18,536.00
Room and Board (if applicable)	$15,276.00	$15,276.00
GRAND TOTAL	$23,902.00	$33,812.00

Note: Students should anticipate additional costs for books, supplies, transportation and personal expenses.

Payment of Tuition and Other Charges

Statements are sent electronically and are available to students and their authorized users to view online in the student's Student Account Payment/ Billing Center. The billing statement indicates the payment due date for that particular semester. Students may complete the payment process online, by mail or in person in the Student Accounts Office. Additional information is available on the Student Accounts web site. Students who fail to settle their accounts by the payment due date will be subject to a late payment/ administrative fee of up to $50 depending on their liability. The College also reserves the right to assess additional late payment fees, up to a maximum of 4 per semester, inclusive of any assessment made for failure to settle an account.

Please be aware that once a student has registered for classes, the student has incurred a financial liability for the cost of these courses. That liability may be canceled or reduced by subsequent actions taken by the student (withdrawal during the published refund schedule). Reduction of tuition and fee liability is made according to SUNY Board of Trustees policies. In order to be eligible to receive a reduction of tuition and fee liability for the semester, students must follow the official drop or withdrawal deadlines. Financial liability to the college will be determined by the refund schedule applicable at the time the drop or withdrawal process takes place. Failure to submit payment, stopping payment on a check, or not attending class(es) does not classify as an official withdrawal and does not absolve the student of their financial obligation or entitle the student to a refund. The college will not automatically cancel the schedules of students whose bill is in an unpaid status by the payment deadline, or for non-attendance and any liability will not be waived. Please refer to the Refund Policy section for further details.

The College recognizes that there may be instances such as medical circumstances, serious family situations, deaths and other similar severe events that may prevent a student from attending class(es) for the remainder of the semester for which they are currently enrolled. These serious circumstances may require that the student withdraw from their class(es) and request a refund that is beyond the normal refund schedule and policy. Students should be aware that they have the right to submit such an appeal to the Extenuating Circumstances Committee. The procedure for filing this appeal is detailed under the section Academic Information within this catalog.

Students should be aware that the State University of New York policy requires the College to take the following action for students who fail to meet their financial obligations:

1. Deny future registrations
2. Cancel current registrations
3. Withhold grade reports
4. Withhold diplomas

Where payment of tuition and other charges is not made, the student's account is subject to collection actions, including the referral to the Office of the New York State Attorney General.

Tuition Payment Plan

There is a payment plan available for students who wish to spread their payments over an extended period of time. For further details, please refer to the Student Accounts.

Advance Deposits

An Advance Tuition Deposit of $100 is required according to instructions conveyed in the student's letter of acceptance. This Advance Deposit is applicable towards tuition due at registration. A Room Deposit of $50 is required of any student who wishes to apply for a room on campus. This fee, which is applicable to the room charge, is due at the time the student submits their Housing Application for college housing.

Tuition

Undergraduate
Residents of New York State are assessed $7,070 per year as a full time student. Non-residents of New York State are assessed $16,980 per year as a full time student. The per credit rates for residents and non-residents are $295 and $708 respectively.

The non-NYS online tuition rate will be charged to students taking courses in **exclusively online academic programs** that have been previously approved by the Provost's Office and registered by the New York State Education Department. These programs are in distance education format, consistent with the student's intention to take courses exclusively online at the time of application and matriculation toward the degree. Students who are non-residents whose intent is to be on campus learning, but may be studying remotely, will be charged the non-NYS rate. Non-NYS resident students who do not have a permanent or local presence in NYS may be eligible for the online out of state rate, which is 1.2 times the NYS resident rate specific to their program.

Graduate
Residents of New York State are assessed $11,310 per year as a full time student. Non-residents of New York State are assessed $23,100 per year as a full time student. The per credit rates for residents and non-residents are $471 and $963 respectively.

Tuition rates quoted above are the 2024/25 rates, and students should be aware that tuition and fees are subject to change without notice by action of the Farmingdale State College and/or SUNY Board of Trustees.

Fees

College Fee*
The College Fee is charged to all SUNY students and is utilized to supplement campus operations by providing additional funds to support the academic mission of the College.

Student Activity Fee*
As stated in the policy of the Board of Trustees, this fee supports student activities, programs, and events sponsored by the Student Government Association. These programs enhance the student experience and promote a quality of campus life that supports student academic success and personal development.

Intercollegiate Athletic Fee*
The purpose of the Farmingdale Intercollegiate Athletic Program is to support and expand the total educational experience offered by the College. The program, available for men and women, offers student-athletes a wide variety of opportunities for participation. Intercollegiate Athletics at Farmingdale function within guidelines established by the Board of Trustees of the State University of New York.

Farmingdale is a Division III member of the NCAA, and competes as members of the Skyline, ECAC, CTC Conferences and NJAC Conference (for track only).

Health Service Fee*
A Health Service Fee is required of all students by New York State Law. Revenue from the student Health Service Fee is directed to health, counseling, prevention services and related programming. At Farmingdale, the fee supports the operation of the Health and Wellness Center and Campus Mental Health Services. Students must have a completed Health Report and Physician's Certificate on file to be eligible for all services except emergency care. *This is not health insurance.*

Recreation Fee*
A Recreation Fee has been implemented to support the Campus Recreation Department for the purpose of providing students, faculty and staff a wide variety of recreational activities. These activities include but are not limited to; Intramural Sports Leagues and Tournaments, Fitness and Group Exercise Classes, Outdoor Pursuits (Hiking, Biking, Skiing) and Professional Sporting Events. The Recreation Fee will also allow students to access the weight room in Roosevelt free of charge.

Technology Fee*
A Technology Fee is assessed to FSC students in order to build, maintain, and support an information technology infrastructure that is necessary to provide a high-quality learning environment. The fee supports the increased use of computing and communication technology in the deliverance of academic course offerings and administrative services available to all students. It is utilized to support broad-based campus projects which have a positive impact upon technology services and support for use by all students. Examples include: technological advances in classrooms, laboratories and enhanced learning spaces, library automation, student services automation, remote network access, and public computing sites.

Transportation Fee*
Transportation fees support the operation and maintenance of student transportation services on campus, and/or between the campus and the surrounding community.

Transcript Fee*
This fee is assessed on a per semester basis to all students to cover the cost of printing and mailing transcripts on the student's behalf to other institutions.

** These mandatory fees are included in the Comprehensive Fee. For additional information regarding the fees, see the Broad-Based Fee Details and the College's Fee Waiver Policy.*

Flight Fee
Students enrolled in the Professional Pilot Program are assessed a $10,000 per semester fee to cover the cost of flight instruction. Students outside of the Professional Pilot Program who elect to flight train at Farmingdale State College are also assessed this fee.

Course/Lab Fees
SUNY fee policy 7804 allows campuses to charge course related fees for academic offerings that entail extraordinary costs and/or result in a tangible end product for students. Accordingly, the College is charging course/lab fees in certain curricula - for the specific courses, please go to Lab/Course and First Day/Inclusive Access Fee Information.

First Day®/Inclusive Access Fees
The College is charging a First Day®/Inclusive Access Fee in certain courses that utilize digital course materials. An Inclusive Access Fee is assessed to all students registered for these courses. Students may opt-out of this fee and purchase the course materials separately. Opt-out requests must be received prior to the deadline. For the specific courses, please go to Lab/Course and First Day/Inclusive Access Fee Information.

Payment Plan Set-Up Fee
There is a $25 non-refundable set-up fee due upon enrolling in a semester payment plan.

Late Payment/Administrative Fee
A late payment/administrative fee of up to $50 will be assessed to all students who do not submit payment for their balance due to the College.

Late Registration Fee
A late registration fee of $30 may be assessed if students do not register before the prescribed deadline.

Drop/Add Fee
A Drop/Add fee of $20 per session may be assessed for all adjustments occurring after the established cut-off date for these transactions.

Non-Matriculated Application Fee
A fee of $50 will be assessed for all non-matriculated undergraduate and graduate applicants at time of application.

Vehicle Registration Fee
The Vehicle Registration Fee of $30 covers the cost of the sticker for parking privileges on the campus for the entire academic year.

Parking Fines

Parking fines of $35 will be assessed to all vehicles parked illegally, as defined by Campus Traffic regulations. Additionally, a fine of $150 will be assessed to vehicles parked illegally in designated handicapped spaces.

Students may obtain parking permits and pay parking fines online utilizing their oasis pin by going to the Campus Police Parking Portal on the Farmingdale State College website.

Identification Card Replacement Fee
An Identification Card Replacement Fee must be paid by all faculty, staff, and students to cover the cost of the material and labor when replacement of an ID card is requested.

Returned Check Charge
A Returned Check Service Charge is assessed against the student when a check is returned unpaid by the bank against which it is drawn. In addition, a late payment fee may be assessed to the account at the same time. The College will not accept any more personal checks from a student who has had a check returned against his or her account. All liabilities will have to be paid by cash, certified or bank check or credit card.

Resident Students

Room Charges
Room charges cover the cost of a room on a seven-day-a-week basis. All pertinent information on the subject is provided in the Residence License and "The Residence Life Handbook."

Board Charges
The College requires that all students residing in residence hall facilities on campus purchase a meal plan. All resident students are automatically enrolled in the Week 19 plan.

In addition, a meal plan may be purchased on an optional basis by commuter students. Additional information is available at CampusDish and Campus Dining on the Farmingdale State College website.

Residence Hall and Common Area Damage Deposit
A Residence Hall and common area Damage Deposit is required from all resident students. If no assessments are made against the student's deposit, the deposit will be refunded in full at the end of the academic year. This deposit is payable at the time of registration.

Insurance

International Students
Students from countries other than the United States are required to be covered by the SUNY International Student and Scholar Health Insurance Program, and will have the charge added to their bill. Learn more by visiting United Healthcare Student Resources.

Please note that tuition and fees are subject to change without notice by action of Farmingdale College Council and/or SUNY Board of Trustees.

Bankmobile and the Refund Process

Farmingdale State College delivers your refund with BankMobile Disbursements, a technology solution, powered by BMTX, Inc. BankMobile Disbursements will mail and email information on how to select your refund preference. For more information visit BankMobile Disbursements.

Registered matriculated students will be sent a Refund Selection Kit from BankMobile Disbursements. Follow the steps to choose your refund preference. As soon as you have selected your refund preference, any refund processed will be delivered based on the method you have selected.

Please select your refund preference as soon as you receive your Refund Selection Kit. Remember, even if you are not currently expecting a refund from Farmingdale State, a refund may be due you in the future.

Refund Policy

In order to be eligible to receive a reduction of tuition and fee liability for the semester, students must follow the official drop or withdrawal deadlines. Failure to submit payment, stopping payment on a check, or not attending class(es) does not classify as an official withdrawal and does not absolve students of their financial obligation or entitle the student to a refund. The College will not be canceling the schedules of students whose bill is in an unpaid status by the payment deadline or for non-attendance.

Financial liability to the College will be determined by the refund schedule applicable at the time the drop or withdrawal process takes place.

Refund Policy for Canceled Courses
The College takes responsibility to see that any student who is enrolled in a course that is subsequently canceled by the College will receive a full refund of all appropriate tuition and fees.

Refund Policy Before Classes Begin
Students who elect to cancel their schedule through the last business day before classes begin must drop their classes online or by emailing a notification to the Registrar's Office. The College will process a refund for all appropriate tuition and fees.

Refund Policy After Classes Begin
If students decide to withdraw from a course or from the College, they must do so by completing the necessary withdrawal forms. Please contact the Registrar's Office for instructions.

For further information on the withdrawal procedure, refer to either "WITHDRAWAL FROM A COURSE" or "WITHDRAWAL FROM THE COLLEGE" sections in the catalog.

The refund schedule for the individual fees is as follows:

Tuition Refunds

Fall and Spring Semester	
First Week	100%
Second Week	70%
Third Week	50%
Fourth Week	30%
Fifth Week	0% refund
Single Summer Session	
First Week	100%
Second Week	25%
Third Week	0% refund

For refund purposes, the first week of classes shall be deemed to have ended when seven calendar days, including the first day of scheduled classes, have elapsed. The first day of classes as scheduled by the campus shall be deemed to be the first day that any classes are offered.

The College runs several courses that do not fall into the normal 15-week semester. The refund schedule for these courses is published separately.

See the refund schedules visit Student Accounts - Refunds & Adjustments.

Refund schedules are subject to change by official action of the State University of New York.

Refund Policy for Dismissals
Any student who is expelled or suspended from school by the President of the College or his designee, or the Dean of Students, will not be eligible to receive tuition or any other refund.

Tuition and Fee Refund Policy for Military Service
There shall be no tuition or fee liability established for a student who withdraws to enter military service prior to the end of an academic term for those courses in which the student does not receive academic credit.

Note: The term "military service" means full-time active duty in the Army, Navy (including Marine Corps), Air Force, Coast Guard of the United States, or qualifying National Guard duty during a war, other military operation, or national emergency as defined in Section 5 of the Higher Education Relief

Opportunities for Students (HEROES) Act (Public Law 108-76).

Enlistment under a delayed enlistment plan does not constitute "full-time duty" until the student is required to leave school on the effective date of active duty as stated in the student's orders.

A student who is a member of a National Guard, Army, Navy or Air Force Reserve unit that is not called up for duty as defined above, is entitled to

a refund only, if in the judgment of the appropriate campus officer, the student is unable to attend classes due to hardship beyond the student's control and the student has made bona fide efforts to permit continued class attendance. Documentation of membership on active duty in the military service shall be provided to and retained by the campus. In the event that a refund is granted to a student in National Guard or reserve status, documentation of the reasons for such action shall be in writing and retained by the campus.

Military personnel withdrawing from any program or term because of changes of assignment beyond their control and upon proper certification of such change from a base education service officer or other appropriate military official shall be deemed to have incurred no liability for tuition and fees due from the student, as opposed to tuition and fees paid by the federal government on the student's behalf (to which federal regulations on return of such funds apply).

College Fee
The College Fee is refundable at 100% only through the first week of classes, except for the following: military service, request of the Chief Administrative Officer, and canceled course. Exceptions to these limitations will be granted only under extenuating circumstances and must be documented.

Student Activity Fee, Health Service Fee, Intercollegiate Athletic Fee, Technology Fee, Recreation Fee, Transportation Fee

These six fees are refunded according to the same schedule as tuition charges.

Transcript Fee
The transcript fee is refundable at 100% only through the first week of classes.

Lab/Course and First Day®/Inclusive Access Fees
These fees are refundable at 100% only through the first week of classes.

Room and Board
Residence hall and meal plan fees are refundable on a prorated basis according to the following schedule, providing that the student follows the check-out procedure through Residence Life.

Time Frame	*Liability*	*Refund*
First Week	10%	90%
Second Week	25%	75%
Third Week	50%	50%
Fourth Week	75%	25%

Any student who has been accorded due process and has been dismissed from the residence halls for disciplinary reasons will receive neither full nor partial refund of room, board or fee payments.

If any student self-initiates withdrawal from the resident halls subsequent to the refund period, the student may retain the board meal plan to which they originally subscribed. There is no conversion option.

Any resident student has the opportunity to upgrade their meal plan during the first two weeks of the fall and/or spring semester. First, go to the Student Accounts office in Laffin Hall. Then, go to the Dining Services office in Campus Center to update your account.

Room and Board Refunds for Military Service
Students who withdraw from the residence halls to enter military service (following the same criteria as defined in "Tuition and Fee Refund Policy for Military Service" above) prior to the end of the academic term will have their room and board charges prorated according to the week that the student officially withdraws from the residence halls. The fall and spring terms operate under a fifteen week semester, which shall be the denominator for the refund equation. For example, a student withdrawing to enter military service during the 9th week of the semester would receive a refund of 40% (6 unused weeks out of the 15 week semester).

With respect to refunds for military service, this policy supersedes the room and board refund policy for normal withdrawals described above, which pertains to withdrawals from the first through the eighth week of the semester. Also, this policy is directed to adjusting a student's charges for and the resultant refund, and does not apply to any return of federal financial aid resulting from such transactions, to which federal regulations on return of such funds apply.

Advance Tuition Deposit
Requests for refund of the Advance Tuition Deposit should be directed in writing to the College's Admissions Office on or before May 1 for the fall semester, and November 1 for the spring semester. Refund requests received after these dates will be honored only for one of the following reasons:

1. Failure on the part of the accepted applicant to fulfill all admissions conditions as stated in the student's letter of acceptance.

2. Circumstances considered to be beyond the control of the applicant as judged by the Chief Administrative Officer of the College, or his designee, who is the Chief Fiscal Officer.

3. Advance Deposits received for acceptances which are issued after April 1 or November 1 will be refundable providing such requests are received within 30 days after notification of acceptance, and providing further that such notification is received before the first day of classes in the term for which the Advance Deposit was made.

Advance Room Deposit
The Advance Room Deposit will be refunded in full if either of the following two conditions are met:

1. If the application for refund is made by June 15 or within 30 days after notification of acceptance, whichever is later.
2. If the application for refund is made later than as stated above, the refund will be granted only if:
    - The student withdraws to enter military service.
    - The student withdraws due to conditions beyond their control as certified and approved by the Chief Administrative Officer of the College.

Advance Deposit Refunds that are not requested within this timetable will not be refunded and will be forfeited to the State of New York.

FINANCIAL AID

To determine a student's financial aid package, we subtract the calculated Student Aid Index, as determined through the FAFSA, from the College's Cost of Attendance budget. The Cost of Attendance includes: Direct costs (Actual Tuition, Fees, and On Campus Resident charges); and Indirect costs (Books, Supplies, Transportation, Off Campus Room and Board allowance, Personal Expenses and others)

Examples of Cost of Attendance at Farmingdale State College
Based upon 2025-2026 rates.

Full-Time NYS Resident Living Home with Parent(s)

Tuition and Fees $8,626

Books and Supplies..... ..... $1,300

Room and Board $2,576

Transportation..... $1,850

Personal Expenses $1,300

Total..... $15,652

Full-Time NYS Resident Living On Campus

Tuition and Fees.....$8,626

Books and Supplies..... $1,300

Room and Board (average)..... $16,182
Transportation..... $700

Personal Expenses $1,300

Total..... $28,108

The costs listed are for estimating only. Charges for tuition, fees, room and meal plan are re-evaluated each year and are subject to the New York State budget process. Applying for financial aid can seem to be a complicated and complex procedure. With correct information and assistance from the Financial Aid Office, the process can be simplified. The office is located in room 324, Laffin Hall.

Federal and state governments, businesses, industry, organizations and the University endeavor to provide students with a variety of scholarships, grants, loans and work programs. The Financial Aid package is a combination of grants, loans, employment and scholarships which will be used to meet a student's financial need. The mix of the package depends upon the student's need and the available funds.

The chances for each individual to receive financial aid depends on a wide variety of circumstances. Some of which include family income and size, assets and other variables. Since every case is unique, all students who are enrolled in a matriculated (degree granting) program are encouraged to file for financial assistance. Applications and information concerning various types of financial aid may be obtained from the Financial Aid Office, Room 324, Laffin Hall.

File the Free Application for Federal Student Aid (FAFSA) electronically at studentaid.gov. The federal code for Farmingdale State College is 002858.

If you are filing your FAFSA on the web and wish to sign it electronically, both the student and parent need to apply for a Federal Student Aid (FSA) ID, which will be an electronic signature for future transactions. You and your parent can apply for your individual FSA ID on the web at studentaid.gov. This ID can be used each year for re-filing your FAFSA application. The FAFSA Submission Summary which shows the result of a student's application for federal financial aid, will be sent to the student within 2 weeks of submission of the completed, signed FAFSA application. The Summary is used to determine the student's financial need for federal programs including Pell, Federal Work Study, Supplemental Educational Opportunity Grant, and Direct Loans. A FAFSA must be re-filed for each academic year that a student wishes to receive financial aid. The preferred filing deadline for continuing students at Farmingdale State College is April 1st.

Verification of Information
Many financial aid applicants will be required to verify the information that is reported on the FAFSA/Renewal FAFSA. Financial data such as income, taxes paid and non-financial data such as family size and dependency status will be verified. For this reason, it is extremely important that the figures you report when completing the FAFSA/Renewal FAFSA are accurate. If there are any discrepancies in the data that was submitted on the application, the aid originally awarded will be revised (either increased or decreased). If you are selected for verification you may need to submit IRS Tax Transcripts, or signed 1040 with all schedules, proof of untaxed income, W-2 statements for you, your spouse, and your parent(s), if dependent, and any requested Verification Worksheets. You should be aware that by not submitting the required documents, as requested, all aid is placed on hold, including loans. When you apply for Federal aid, you sign a certification agreeing to give proof of all the information you have on the form, if asked. As such, if you do not give the proof, you will not receive aid. If you withdraw from the college prior to completing verification you will be given additional time to supply the requested verification documents. If you do not submit the documentation, your aid will be cancelled.

FEDERAL GRANTS & LOANS

Federal Pell Grant
Eligibility: This is a federal grant for matriculated students (in a degree granting program) who meet the financial need guidelines of the program, are in good academic standing and are making satisfactory academic progress.

Amount per year: $740 to $7,395 (2025-2026) depending on the student's enrollment status and federal funding for this program.

Pell Recalculation Policy: Schools must recalculate Pell Grants based on the number of credits enrolled in at a prescribed Pell Recalculation Date. We will review enrollment at the end of the drop/add period of each Part of term (session) within a semester and including the Winter term as a Part of Term for the Spring semester. A Pell Grant may be reduced or increased based on changes in enrollment.

Federal Supplemental Educational Opportunity Grant (SEOG)
This is a federal grant that may be awarded to Pell eligible students in good academic standing.

Campus based amount per year: $100 to $2000. Priority is given to full-time students living in campus housing. If student is not enrolled full-time in courses that apply to their major, awards may be reduced or cancelled.

Eligibility: Awarded to students who have exceptional financial need and who are enrolled as matriculated students.

Awards are based on the FAFSA determination of need, the availability of funds, good academic standing, satisfactory progress towards a degree and filing the FAFSA each year by the Farmingdale State College filing deadline of March 1st.

Children of Fallen Heroes
Under this scholarship, beginning with the 2018-2019 award year, a Pell-eligible student whose parent or guardian died in the line of duty while performing as a public safety officer is eligible to receive a maximum Pell Grant for the award year for which the determination of eligibility is made. To qualify for this scholarship, a student must be Pell-eligible and have a Pell- eligible SAI and be less than 24 years of age or enrolled at an institution of higher education (full or part-time) at the time of his or her parent's or guardian's death. In subsequent award years, the student continues to be eligible for the scholarship, as long as the student has a Pell-eligible SAI and continues to be an eligible student.

The child of a parent or guardian who died in the line of duty while (a) serving on active duty as a member of the Armed Forces on or after September 11, 2001; or (b) actively serving as and performing the duties of a public safety officer; and Less than 33 years old as of the January 1 prior to the award year for which the applicant is applying (e.g., for the 2025-26 award year, a student must be less than 33 years old as of January 1, 2025, to be eligible).

Federal Direct Loan Program – Direct Subsidized and Direct Unsubsidized

Eligibility: This loan program enables students to borrow funds directly from the federal government to help pay educational costs. Students must file the FAFSA in order to establish eligibility for the Federal Direct Loan Program. Students must be registered at least half-time in a matriculated program, be in good academic standing, and be maintaining satisfactory progress towards a degree in order to borrow a loan. If a student is offered and accepts a Federal Direct Subsidized and/or a Federal Direct Unsubsidized loan, Entrance Counseling and an electronic Master Promissory Note (e-MPN) must both be completed online at www.studentaid.gov before any funds can be issued to the College on the student's behalf. A loan may never exceed the cost of education minus other financial aid received. Loan proceeds are not disbursed until at least 30 days after the first day of classes.

Eligibility for the Federal Direct Subsidized loan program is based on financial need as determined by the FAFSA. The federal government will subsidize the loan by paying the interest on the loan while the student is enrolled at least half-time in a matriculated program. Interest will begin to accrue on the loan after the student ceases to be enrolled at least halftime or ceases to be enrolled in a matriculated program; repayment of the loan principle begins six months after that date. For the 2025-26 academic year, the interest rate upon repayment is currently 6.39% and fixed. There is a 1.057% origination fee.

The Federal Direct Unsubsidized loan is available to all students enrolled at least half-time, regardless of financial need as determined by the FAFSA. Interest will accrue on the loan while the student is enrolled in classes. The student may choose to pay the interest while in school, or defer the interest until repayment of the loan principle begins. For the 2025-26 academic year, the interest rate on the Federal Direct Unsubsidized loan is currently 6.39% and fixed. There is a 1.057% origination fee.

A student who is a freshman (0-29.99 credits earned) dependent student may borrow up to $5,500 for the academic year, and an independent student may borrow up to $9,500 (the Federal Direct Subsidized loan may not exceed $3,500). A sophomore (30-59.99 credits earned) dependent student may borrow up to $6,500 for the academic year, and an independent student may borrow up to $10,500 (Federal Direct Subsidized loan may not exceed $4,500). Students enrolled in Bachelor degree programs who have earned 60+ credits may borrow up to $7,500 as a dependent student and $12,500 as an independent student (Federal Direct Subsidized loan may not exceed $5,500). A student in an Associate Degree program may not exceed the sophomore loan limit. Certificate students should refer to the office of Financial Aid for information on their annual loan limits.

Repayment of the Federal Direct loans begin six months after a student graduates, leaves the College, or falls below half-time status. It is therefore mandatory for all students who have borrowed Federal Direct loans to complete Exit Counseling online at the U.S. Department of Education's website (https://studentaid.gov/h/manage-loans) This will provide information on the Federal Direct Loans including loan types, disbursed amounts, outstanding principal and interest, and the total amount of all loans.

Typically, loans may be repaid over the course of ten years. The monthly payment will depend upon the total amount borrowed, interest rate assessed, fees calculated, and repayment period for each different loan.

The Federal Direct Parent Loan (PLUS) enables either a biological, adoptive, or step-parent of a dependent student to borrow a loan up to the cost of education, less financial aid, to meet the costs of education. While the PLUS loan is not based on financial need, the student must file a FAFSA to be eligible. The parent must apply for the Federal Direct PLUS loan online at www.studentaid.gov, must pass a credit check, and must complete an e-MPN. The Federal Direct PLUS loan will accrue interest at 8.94% for the 2025-26 academic year. There is currently a 4.228% origination fee. The repayment for a Direct PLUS Loan begins 6 months after the student graduates or ceases to enroll for at least 6 credits. If the parent does not get approved for a Federal Direct PLUS loan, the student may request to borrow additional Federal Direct Unsubsidized Loan funds and should contact the Office of Financial Aid for further details.

Federal Work Study Program
This program provides part-time jobs on campus. Campus based amount per year: up to $2,000.

Eligibility: Open to all matriculated students who have established financial need and who are in good academic standing and maintaining satisfactory progress toward their degree. The amount of Federal Work Study (FWS) a student is awarded is determined by their need. The maximum award for the year is $2,000. A student may work a maximum of 20 hours per week while school is in session. If the student is awarded FWS he or she must return to the financial aid office for placement and to complete their employment forms. FWS is disbursed to the student via bi-weekly payroll.

Students must accept award on OASIS by October 15th for the Fall term and February 15th for a Spring term award only or WITHIN 30 days of original offer, whichever is later. Due to availability of funds, the offer may be cancelled after it expires.

STATE AID PROGRAMS

Complete information regarding all scholarships and grant programs from New York State is available at www.hesc.ny.gov

High School Diploma
To be eligible for State student financial assistance, Education Law section 661(4) states that a student first receiving aid in academic year 2006-07 and thereafter, the certificate of graduation must be from a recognized school providing secondary education within the United States. To be acceptable, the certificate of graduation or high school diploma must be from a secondary school that is recognized, authorized or approved by the state educational entity having jurisdiction. A student who has graduated from an out-of-state secondary school that is not recognized or authorized by the state where the school is located must choose one of the other options for establishing eligibility for financial aid. In New York State, only public high schools and registered nonpublic schools are permitted by Education Law to issue high school diplomas. Students who have completed their education at a nonpublic school that has elected not to register with the State Education Department must choose one of the other options for establishing their eligibility for student aid.

The institution must have on file one of the following acceptable demonstrations of meeting the high school graduation requirement:

- A high school diploma as indicated on an official, final high school transcript with graduation date posted; or
- A prior degree as indicated on an official transcript with degree date posted; or
- An official transcript showing 24 semester hour credits earned at an accredited institution in the appropriate distribution to qualify for a high school equivalency diploma pursuant to the Regulations of the Commissioner of Education (6 credits in English Language arts, 3 credits each in the Humanities, Natural Sciences, Mathematics, and Social Sciences, and 6 additional credits applicable to the student's program); or
- Appropriate documentation from the local school district of completion of high school requirements through home schooling; or
- A GED/TASC test score certificate showing passing scores.

Excelsior Scholarship and Excelsior Tuition Credit
Recipients of the Excelsior Scholarship may receive up to $5,500 or actual tuition, whichever is less. The maximum Excelsior Scholarship will be reduced by the amount of certain other student financial aid awards which an applicant has or will receive for the academic year including a New York State Tuition Assistance Program (TAP) award and/or federal Pell grant.

A supplemental Excelsior Tuition Credit award will be added to the Excelsior Scholarship if the tuition is not fully covered by the Excelsior Scholarship, TAP, Pell and all other grants and scholarships.

Tuition Assistance Program (TAP)
The New York State Tuition Assistance Program (TAP) helps eligible New York residents pay tuition at approved schools in New York State. Depending on the academic year in which you begin study, an annual TAP award can be up to $5,665. Because TAP is a grant, it does not have to be paid back.

Please Note: Only courses that apply to the student's current academic program can be included.

Amount per year: $1,000 - $5,665 (2022-2026 academic year.) Award amounts are determined each year by the New York State Legislature.

Eligibility: All matriculated students who are New York State residents and whose family New York State net taxable income is within allowable limits over the two proceeding tax years, are eligible for a TAP grant to attend a New York State institution. Students must file the FAFSA and the Express TAP Application (ETA). The ETA will be forwarded to the student by New York State Higher Education Services Corporation (HESC) after the FAFSA has

been processed. The TAP codes for Farmingdale State College are 3025 for students in a program leading to an Associate Degree. The TAP code for students enrolled in a Bachelors Degree program is 6025. TAP awards are subject to the New York State budget process. TAP must be re-applied for each academic year. In addition to re-filing each academic year, continuing students must meet program pursuit and academic standards established by the State University of New York.

Part-Time Tuition Assistance Program (P-TAP)
The budget eliminates the prior full-time enrollment requirement, thereby expanding the Part-time Tuition Assistance Program (TAP) to cover all otherwise TAP-eligible students enrolled in three or more credits at a SUNY, CUNY or not-for-profit independent college. Recognizing that many students need access to effective training courses to upskill in their current careers, the Enacted Budget also expands the Part-time Tuition Assistance Program to support part-time students in non-degree training programs that directly lead to employment or advancement in a significant industry, as identified by the New York State Department of Labor's Statewide Significant Industries Report.

Educational Opportunity Program
This program provides grant assistance to students who meet the EOP academic and financial guidelines for admission to the college and are full-time, matriculated students. Amount per year varies based on the student's enrollment status, class year, and commuter or residential dorm status. EOP grant awards are subject to the New York State budget process.

SUNY Tuition Credit
SUNY Tuition Credit funds are meant to assist with meeting the SUNY tuition increases. Award amounts are based upon the amount of the student's TAP grant and are calculated by HESC (Higher Education Services Corporation) for TAP eligible students enrolled at a SUNY institution. Awards are also dependent upon passage of the annual NY State budget. All SUNY Tuition Credits are initially estimated and are subject to change.

State University Supplemental Tuition Award (SUSTA)
SUSTA is a state grant that is based on a full time student's TAP grant eligibility and financial need. Amount of awards can range between $200 and $1000 per academic year.

OTHER NEW YORK STATE GRANTS, SCHOLARSHIPS AND AWARDS

Scholarships
THEDREAM.US Scholarship is the nation's largest scholarship program for undocumented immigrant youth. In 2021, Thedream.US partnered with Farmingdale State College to provide its undocumented students the opportunity to attend. TheDream.US has two types of scholarships; one for high school or GED graduates and another one for community college graduates. For more information, visit www.thedream.us

Flight 3407 Memorial Scholarship provides financial aid to children, spouses and financial dependents of individuals killed as a direct result of the crash of Continental Airlines Flight 3407 on February 12, 2009.

The Flight 587 Memorial Scholarship guarantees access to a college education for the families and financial dependents of victims of the crash of American Airlines Flight 587 on November 12, 2001.

The Military Enhanced Recognition Incentive and Tribute- Merit Scholarship, (also known as), The Military Service Recognition Scholarship provides financial aid to children, spouses and financial dependents of members of the armed forces of the United States or of a state organized militia who, at any time on or after Aug. 2, 1990, while a New York State resident, died or became severely and permanently disabled while engaged in hostilities or training for hostilities. For study in New York State.

The NYS Math & Science Teaching Incentive Scholarship provides grants to eligible full-time undergraduate or graduate students in approved programs that lead to math or science teaching careers in secondary education.

The NYS Memorial Scholarship provides financial aid to children, spouses and financial dependents of deceased firefighters, volunteer firefighters, police officers, peace officers, and emergency medical service workers who have died as the result of injuries sustained in the line of duty in service to the State of New York. For study in New York State.

Scholarships for Academic Excellence are awarded to outstanding graduates from registered New York State high schools. Awards are based on student grades in certain Regents exams. For up to five years of undergraduate study in New York State.

The NYS World Trade Center Memorial Scholarship program guarantees access to a college education to the families and financial dependents of the victims who died or were severely and permanently disabled in the Sept. 11, 2001 terrorist attacks and the resulting rescue and recovery efforts.

The Senator Patricia K. McGee Nursing Faculty Scholarship program seeks to increase the number of educators and adjunct clinical faculty teaching nursing education in New York State.

The NYS Science, Technology, Engineering and Mathematics (STEM) Incentive Program provides a full SUNY or CUNY tuition scholarship for the top 10 percent of students in each New York State high school if they pursue a STEM degree in an associates or bachelor degree program and agree to work in a STEM field in New York State for 5 years after graduation.

The New York State Young Farmers Loan Forgiveness Incentive Program is offered to encourage recent college graduates to pursue careers in farming in New York State. This program provides loan forgiveness awards to individuals who obtain an undergraduate degree from an approved New York State college or university and agree to operate a farm in New York State, on a full-time basis, for five years.

NYS Child Welfare Worker Incentive Scholarship grants awards for child welfare workers employed at voluntary not-for- profit child welfare agencies licensed by the NYS Office of Children and Family Services (OCFS). Recipients must agree to live in NYS and work at a voluntary not-for-profit child welfare agency licensed by OCFS for 5 years after graduation, and can use the award to get an associate's, bachelor's or graduate degree for not more than 2 years, 4 years, and 2 years, respectively.

Awards
NYS Aid to Native Americans provides aid to enrolled members of tribes listed on the official roll of New York State tribes or to the child of an enrolled member of a New York State tribe. For study in New York State.

NYS Regents Awards for Children of Deceased and Disabled Veterans provides to students whose parent(s) have served in the U.S. Armed Forces during specified periods of war or national emergency.

Segal AmeriCorps Education Award provides to New York State residents interested in high quality opportunities in community service.

Veterans Tuition Award provides awards for full or part-time study to eligible combat veterans matriculated at an undergraduate or graduate degree-granting institution or in an approved vocational training program in New York State.

Note About Scholarships and Awards:
Scholarships and awards are available to all students, based on certain criteria, in both the associate and bachelor degree programs. To receive information on Farmingdale State College scholarship programs and External Scholarships, please go to https://www.farmingdale.edu/scholarships/. For private scholarship sources, please visit www.fastweb.com. If you have any questions or need assistance filling out a scholarship application, you may contact the Financial Aid office at 934-420-2578.

FINANCIAL AID POLICIES

1. The Financial Aid Office reserves the right to request additional information and/or documentation from the student or parent(s), before disbursing aid to the student's Farmingdale State College account.
2. Financial Aid is not available to international students who are studying at Farmingdale State College.
3. In order to receive aid, a student must be enrolled in a matriculated program. Aid is based on the number of credits the student is enrolled in at the end of the first week of classes that apply to the student's current academic program. Adjustments in the amount of financial aid that the student is eligible for may be made for changes to the number of eligible credits the student is attempting.
4. Students must be enrolled in at least 6 eligible credits per term (Fall, Intersession and Spring combined, or Summer terms combined) to receive most federal financial aid, except Pell Grant. Only courses

that apply to the student's current academic program, as determined by DegreeWorks or academic department, can be considered in determining the number of eligible credits for financial aid.

5. In order to receive financial aid at Farmingdale State College a student may not be in default on a Perkins (formerly National Direct Student Loan) or Stafford Loan. The student can not receive aid if they owe a refund on a Pell or SEOG grant.
6. Federal and New York State legislation mandate that all students receiving financial aid meet institutional, New York State and federal standards of Satisfactory Academic Progress as defined qualitatively by Grade Point Average and quantitatively by Pace of Progression (percentage of all credits attempted that are earned within a maximum time frame) in order to continue to receive federal and/or state aid. Farmingdale State College's academic progress requirements are fully explained in the chapter of this catalog titled "Academic Information".
7. The academic progress of a student is reviewed each semester. For students who are receiving financial aid, a determination of continued eligibility is made. Students who no longer qualify for continued financial aid are notified by mail.
8. A student's enrollment in a program of study abroad approved for credit by the home institution may be considered enrollment at the home institution for the purpose of applying for assistance under the Title IV, Higher Education Amendment programs.

SATISFACTORY ACADEMIC PROGRESS FOR FINANCIAL AID

In order to continue to receive financial assistance in the subsequent semester and thereafter, a student must meet the academic standards on the following pages.

FINANCIAL AID

ACADEMIC STANDARDS FOR NEW YORK STATE PROGRAMS

Students are required to complete a certain percentage of courses each term, depending on the number of state awards they have received. The percentage is determined according to the following schedule:

No. of Payments	Must Receive a Grade for
Already Received	Pursuit of Program of A-F or P
1,2	50% of minimum full time (6 credits)
3,4	75% (9 credits)
5 or more	100% (12 credits)

Repeated courses will only count toward a full-time schedule and Pursuit of Program if a grade of F or W was received. A course with a grade of F or W can only be repeated once. If this course is repeated again, it would have to be in addition to the 12 credit minimum required in order to be considered full-time. The only exception would be if a minimum grade is required for a particular curriculum. This would have to be approved and documented by the Department Chair in order to be approved.

In addition, a student must meet the minimum academic progress standards. Academic standards for eligibility for TAP programs are available at: www.hesc.ny.gov/tap-coach/94-satisfactory-academic-progress.html.

The academic standard requirements can be viewed at https://www.farmingdale.edu/student-financial-services/financial-aid/academic-standards.shtml

A student may have New York State financial aid reinstated if they make up the deficiency without benefit of financial aid or is readmitted to Farmingdale State College after an absence of at least one calendar year. Part-time students receiving New York State assistance (Aid for Part-time Study Program) must meet the academic standards for full-time students as adapted to recognize the reduced enrollment status.

A student who fails to meet the minimum standards whether in Pursuit of Program (number of credits completed every semester with a letter grade of A-F or P) or satisfactory Academic Progress (cumulative number of credits that must be earned, and cumulative (GPA), may apply for a one-time waiver. Students who fail to meet the C-Average requirement (which must be achieved and maintained after receiving the Fourth TAP payment) may apply for a C-Average waiver which may be issued more than once.

The waiver is not automatically approved; a reason for the student's inability to meet the standards must be documented. In order to apply for a waiver, a student must present exceptional or extraordinary circumstances which must be approved by officials for the institution and maintained on file for review by HESC. Institutional officials are required to deny the waiver if the facts concerning a student's failure to adhere to standards do not warrant approval.

Academic Standard for NYS Programs

Bachelors Degree Programs - 6025								EOP		
Before being certified for this payment	**1st**	**2nd**	**3rd**	**4th**	**5th**	**6th**	**7th**	**8th**	**9th**	**10th**
(Equivalent TAP Points already earned/ used)	**0**	**6**	**12**	**18**	**24**	**30**	**36**	**42**	**48**	**54**
Must have earned this many credits	0	6	15	27	39	51	66	81	96	111
With this minimum GPA	0	1.5	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0
Prior Term Program Pursuit Credit Completion Percentage (A-F or P grades)	0	50% (6 credits)	50% (6 credits)	75% (9 credits)	75% (9 credits)	100% (12 credits)	100% (12 credits)	100% (12 credits)	100% (12 credits)	100% (12 credits)

Associates and Certificate Programs - 3025

Before being certified for this payment	1st	2nd	3rd	4th	5th	6th
(Equivalent TAP Points already earned/used)	**0**	**6**	**12**	**18**	**24**	**30**
Must have earned this many credits	0	6	15	27	39	51
With this minimum GPA	0	1.3	1.5	1.8	2.0	2.0
Prior Term Program Pursuit Credit Completion Percentage (A-F or P grades)	0	50% (6 credits)	50% (6 credits)	75% (9 credits)	75% (9 credits)	100% (12 credits)

While the minimum number of credits to be considered full-time in a term is 12, a student needs to complete 30 credits per academic year to ensure they complete their degree in the recommended timeframe, maintain program pursuit and do not exhaust their eligibility as TAP awards 6 semesters to students pursuing an Associate's Degree and 8 semesters for a Bachelor's Degree.

Only courses that apply toward the current academic program can be counted in determining full-time status. Courses that apply to a second major, a minor or credits that are above the minimum amount of credits, if a range of credits is provided, WILL NOT be counted and the student may be subsequently de-certified by the TAP certifying officer.

EXCEPTION: If student is a graduating senior in their last semester, as determined by needing no additional coursework other than the courses for which they are registered, and they need less than 12 credits to meet their degree requirements, we may include additional non-applicable credits for which they are registered to determine full-time status.

ACADEMIC STANDARDS FOR FEDERAL FINANCIAL AID AND EOP FUNDING

In order to receive federal and EOP funds a student must meet the satisfactory academic standards set forth by the College as mandated by the federal government. **Satisfactory Academic Progress** is defined qualitatively by **Grade Point Average** and quantitatively by **Pace of Progression** to ensure completion within a maximum time frame.

Please be aware that only courses that apply toward the student's current program can be considered in determining the number of eligible credits for financial aid.

All credits attempted, whether or not the student ever received financial aid, must be evaluated in order to determine if a student is eligible for financial aid in subsequent terms. Program standards for financial aid will be evaluated at the end of each semester, including summer. Non-credit course work will be evaluated according to the University standards. **A student who fails to meet the progress standards, but who is permitted to remain in school as a matriculated student, will be allowed to receive one semester of financial aid and will be assigned a status of "Financial Aid Academic Warning."** ***If the student fails to meet Satisfactory Academic Progress after that term they are no longer eligible to receive federal financial aid.***

Appeal of Ineligibility for Federal and EOP Funds due to Failure to Meet Academic Standards
A student who fails to meet the financial aid progress standards, is a matriculated student and has exhausted their semester of "Financial Aid Academic Warning" may appeal to the Director of Financial Aid or Designee. The student must submit the Appeal form and documentation to verify circumstances which interfered with the student's ability to meet academic progress standards and identify what has changed that will allow them to meet the standards at the next evaluation. The following circumstances may be considered in determining whether the student is eligible to be considered for a waiver:

- Serious illness to student or immediate family member.
- Death of immediate family member.
- Serious and/or unusual personal circumstances.

If the Appeal is approved, the student will be assigned a one-time status of "Financial Aid Probation" and is expected to meet the standards at the next evaluation and be placed on an academic plan with the Dean of Students that will ensure they will be able to meet the standards by a specific point in time. ***Failure to meet the standards will result in the loss of eligibility for all federal financial aid. No consecutive Appeals will be granted.***

Eligible Degree/Certificate Program	Eligible Maximum Attempted Credits
Associate Degrees	96
Bachelor Degrees	181
Accounting Certificate	54
Cannabis Production and Management Certificate	36
Computer Information Systems Certificate	49.5
Human Resource Management Certificate*	27
Management Certificate	54
Marketing Certificate	54

Ornamental Horticulture Certificate	51
Science for the Health Professions Certificate	243
Sustainable Energy Certificate*	27
Wind Turbine Technology Certificate	48
*Ineligible program for NYS financial aid, except Veterans Tuition Awards, as less than 24 credits	

Satisfactory Academic Progress Charts for Federal Financial Aid

Bachelor Degree	**Total Credits Attempted**	**Total Credits Earned**	**Cumulative GPA**
	0-12	0	0.0
	3-18	6	1.1
	19-24	8	1.4
	25-30	10	1.4
	31-35	12	1.5
	36-40	15	1.7
	41-45	18	1.7
	46-50	21	1.7
	51-55	25	1.7
	56-60	30	1.8
	61-65	35	2.0
	66-70	40	2.0
	71-75	45	2.0
	76-80	50	2.0
	81-85	55	2.0
	86-90	60	2.0
	91-96	65	2.0
	97-101	70	2.0
	102-106	75	2.0
	107-111	80	2.0
	112-116	85	2.0
	117-121	90	2.0
	122-126	95	2.0
	127-131	100	2.0
	132-136	105	2.0
	137-141	110	2.0
	142-146	115	2.0
	147-151	120	2.0
	152-156	125	2.0
	157-161	130	2.0
	162-166	135	2.0
	167-171	140	2.0

	172-176	145	2.0
	177-181	150	2.0

Associate Degree	**Total Credits Attempted**	**Total Credits Earned**	**Cumulative GPA**
	0-12	0	0.0
	13-18	6	1.1
	19-24	8	1.4
	25-30	10	1.4
	31-35	12	1.5
	36-40	15	1.7
	41-45	18	1.7
	46-50	21	1.7
	51-55	25	1.7
	56-60	30	1.8
	61-65	35	2.0
	66-70	40	2.0
	71-75	45	2.0
	76-80	50	2.0
	81-85	55	2.0
	86-90	60	2.0
	91-96	65	2.0

Incompletes, Withdrawals and Repeated Courses will be counted in Attempted Credits and affect your Pace of Progression. Transfer Credits will be included in Total Credits Attempted and Earned.

GRADUATION REQUIREMENTS

GENERAL EDUCATION REQUIREMENTS

In 2021, the SUNY Board of Trustees approved the SUNY General Education Framework (SUNY GE), a new framework that is consistent with SUNY's continuing commitment to a strong general education program. SUNY GE is a system-wide framework that addresses the fundamental goals of higher education, including proficiency with essential skills, familiarization with disciplinary and interdisciplinary ways of knowing, and enhancement of the values and disposition of an engaged 21st century global citizenry.

Effective Fall 2023, all first-time full time freshman students entering Farmingdale will follow the newly established SUNY GE. Transfer students should reference the prior General Education Framework and consult their advisor. As of Fall 2025, all incoming students will be required to follow the current SUNY GE as outlined below.

Core Competencies:
Critical Thinking & Reasoning, Information Literacy, and Civic Discourse are core competencies that all undergraduate degree-seeking student must meet. These core competencies complement one another, and the student learning outcomes of the core competencies also intersect and support the knowledge and skills areas of the General Education Framework. As such, a learning experience (e.g., a course) may address more than one core competency and may also address a knowledge and skills area. Core competencies are infused throughout the curriculum and can be identified by GECT, GEIL, and CIVD attributes, which are displayed on the course offering webpage.

To fulfill the core competency in Civic Discourse, students will take one of the following approved courses:
ANT 100: Introduction to Anthropology
ANT 120: Archaeology
ANT 350: Environmental Anthropology
DEN 240: Dental Practice Management, Ethics and Jurisprudence
DEN 340: Dental Hygiene Law & Practice Management
ECO 156: Principles of Economics (Macroeconomics)
ECO 157: Principles of Economics (Microeconomics)
HIS 114: Western Civilization I
HIS 115: Western Civilization II
HIS 117: World Civilization I
HIS 118: World History II
HIS 121: American History I
HIS 122: American History II
HIS 127: Sports History
HIS 130: African American History
HIS 131: African American History II
HPW 245: Ethics in the Health Professions
MLG 323: The Holocaust in Italian Culture and Cinema
MLG 324: Italian Horror Film: Sex, Murder and Social Criticism
NUR 215W: Developing Nurses Ways of Knowing
PCM 327: Rhetoric & Persuasion
PHI 205: Ethics
POL 250: American Politics
SOC 122: Introduction to Sociology
SOC 200: Introduction to Women's Studies
SOC 223: Social Issues and Institutions
SOC 228: Society and Health
SOC 229: Race and Ethnic Relations
SOC 238: Youth Culture
SOC 282: Introduction to LGBTQ+ Studies
SOC 325: Social Inequality
SOC 363: Immigration Past and Present

SUNY General Education Knowledge and Skills Areas:
Farmingdale students in degree programs will earn 30 SUNY General Education Requirement (SUNY-GER) credits by completing one or more courses in each of the following areas:

Communication- Written and Oral
*Diversity: Equity, Inclusion and Social Justice**
Mathematics and Quantitative Reasoning
Natural Sciences and Scientific Reasoning
Arts
Humanities
World Languages
Social Sciences
World History & Global Awareness or US History & Civic Engagement

*As a part of the SUNY GE, all students at Farmingdale State College (FSC) are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Please note that based on the major, some programs have specified general education courses and others have SUNY approved waivers. Always speak with your advisor to select the courses needed to satisfy the general education requirements specific to your program of study.

The ten General Education Knowledge and Skill Areas with the courses which have been approved to fulfill the student learning objectives in each area are as follows:

Communication- Written
BUS 141: Contemporary Business Communications
EGL 101: Composition 1 - College Writing
EGL 101E: Composition 1 - College Writing
EGL 303: Writing for the 21st Century
EGL 310: Technical Writing
PCM 120: Human Communication
PCM 203: Media Literacy
SPE 231: Introduction to Argument and Debate

Communication - Oral
BUS 141: Contemporary Business Communications
EGL 310: Technical Writing
NTR 340: Nutrition Communication
PCM 120: Human Communication
PCM 203: Media Literacy
SPE 130: Public Speaking
SPE 202: Interpersonal Communications
SPE 231: Introduction to Argument and Debate
SPE 330: Professional and Technical Speech
SPE 331: Advanced Oral Communication

Diversity: Equity, Inclusion and Social Justice
ANT 110: Sociocultural Anthropology *D
ANT 130: Indigenous People of North America *D
ANT 211: Caribbean Cultures *D
ART 200: History of Graphic Design *D
ART 304: Global Art History *D
DEN 222: Community Oral Health II *D
EGL 225: Images of Women in Drama *D
EGL 235: Caribbean Literature *D
EGL 314: Major Authors in World Literature *D
EGL 325: African American Literature *D
GEO 211: The World & Its Peoples *D
GEO 222: Human Geography *D
GEO 231: Europe and Its Peoples *D
GEO 322: Cultural Geography *D
HIS 101: Themes in World History *D
HIS 114: Western Civilization I *D
HIS 115: Western Civilization II *D
HIS 117: World Civ I *D
HIS 118: World Civilization II *D
HIS 121: US History to Reconstruction *D
HIS 122: US History Since Reconstruction *D
HIS 127: Sports in American History *D
HIS 130: African-American History to 1865 *D
HIS 131: African-American History Since 1865 *D
HIS 132: The Myth of the Great American Melting Pot *D
HIS 160: Exploitation and Sexploitation in World History *D
HIS 201: Modern African History *D
HIS 212: Modern World *D
HIS 215: The World of Islam *D
HIS 222: Women in US History *D
HIS 233: Comparative Religions and Cultures *D
HIS 270: Genocide in the 20th Century *D
HIS 280: Caribbean History *D
HIS 281: Modern Latin America *D
HIS 335: Gender and Technology in Historical Perspectives *D
HPW 470: Healthy America *D

HUM 332: Intercultural Communications *D
MLG 300: International Cinema *D
MLG 305: Hispanic and Latin American Culture and Civilization *D
MLG 321: Chinese Culture and Civilization *D
MLG 324: Italian Horror Films: Sex, Murder and Social Criticism *D
MLG 327: Indigenous People in Latin America *D
NTR 420: Community Nutrition *D
NUR 206: The Art of Nursing *D
NUR 215W: Developing Nurses' Ways of Knowing *D
PHI 110: Philosophy, Politics, and Society *D
POL 250: American Politics *D
POL 344: DEI: History, Politics, and Policy *D
POL 370: International Relations *D
POL 393: Politics & Popular Culture *D
PSY 234: Social Psychology *D
SOC 122: Introduction to Sociology *D
SOC 150: Introduction to Africana Studies *D
SOC 200: Introduction to Women's Studies *D
SOC 228: Society and Health *D
SOC 229: Race and Ethnic Relations *D
SOC 231: Multiculturalism *D
SOC 240: Gender and Social Change *D
SOC 253: Black Popular Cultures *D
SOC 263: Immigration Past and Present *D
SOC 282: Introduction to LGBTQ+ Studies *D
SOC 283: Sex, Gender, and Sexuality *D
SOC 303: Sociology of Work and Occupation *D
SOC 308: Black Political and Social Thought *D
SOC 309: Sport in Society *D
SOC 325: Social Inequality *D
SOC 312: Disability and Society *D
SOC 224: Urban Sociology *D
SOC 326: Visual Sociology *D
SOC 329: Social Movements *D
SOC 344 Sociology of the Body *D
SOC 361: Gender Theory *D

*In order to fulfill the DEISJ requirement, students must register for sections with *D in the title*

Mathematics & Quantitative Reasoning
GIS 201: Math Principles in Geography
MTH 102: Elementary Discrete Mathematical Models
MTH 103: Sets, Probability & Logic
MTH 107: Intro to Mathematical Ideas
MTH 110: Statistics
MTH 116: College Algebra
MTH 117: Precalc with Applications
MTH 129: Precalculus
MTH 130: Calculus I with Applications
MTH 150: Calculus I
MTH 151: Calculus II
MTH 236: Calculus II with Applications

Natural Sciences & Scientific Reasoning
BIO 120: General Biology
BIO 121: Health, Heredity and Behavior
BIO 123: Human Body in Health & Disease
BIO 130: Biological Principles I
BIO 131: Biological Principles II
BIO 135: Marine Science
BIO 141: Biodiversity and You!
BIO 166: Principles of Human Anatomy & Physiology
BIO 170: Human Anatomy & Physiology I
BIO 171: Human Anatomy & Physiology II
BIO 192: Botany
BIO 197: Human Biology
BIO 198: Entomology
BIO 221: Oral Microbiology
CHM 111: Chemistry & Public Interest
CHM 112L: Chem & Public Interest Lab*
CHM 124: Principles of Chemistry
CHM 140: Intro: Gen,Organic & Biochemistry
CHM 152: General Chem Principles I
CHM 153: General Chem Principles II
CHM 260: Fundamentals of Organic Chemistry
CHM 270: Organic Chemistry I
GEO 201: Physical Geography
GIS 303L: GIS Science Lab
HOR 107: The Plant Science of Cannabis
HOR 111: Horticulture II-Growth & Development
HOR 112: Soils: The Foundation of Life
NTR 110: Introduction Nutrition Science
PHY 110: Physical Sci: Physical Geology
PHY 111: Physical Sci: Historical Geology
PHY 112: Physical Science Survey
PHY 113: Physical Sci: Physics
PHY 114: Physical Sci: Environment
PHY 115: Physical Sci: Energy
PHY 116: Physical Sci: Meteorology
PHY 117: Physical Sci: Solar Astronomy
PHY 118: Physical Sci: Stellar Astronomy
PHY 119: Physical Sci: Technology
PHY 120: Physical Sci: Extraterrestrial
PHY 121: Descriptive Classical Physics
PHY 122: Descriptive Modern Physics
PHY 123: Theory of Everything: Unification of Physical Law
PHY 124: Physics of Sound
PHY 125L: Physical Sci. Laboratory I**
PHY 126L: Physical Sci. Laboratory II**
PHY 135: College Physics I
PHY 136: College Physics II
PHY 143: General Physics I (Calculus)
PHY 144: General Physics II (Calculus)
PHY 151: University Physics I
PHY 152: University Physics II
PHY 161: University Physics Laboratory
PHY 253: University Physics III
PHY 333: Modern Physics
PHY 334L: Modern Physics Laboratory

* This Chemistry Lab qualifies for credit towards the General Education Program when taken with Chemistry 111.

** These Physics Labs qualify for credit towards the General Education Program when combined with any Physics course numbered 110 through 124. Each lab carries 1 credit.

Humanities
ARC 100: Introduction to Architecture &Culture
ARC 362: History Western Architecture
ART 200/W: History of Graphic Design
ART 201/W: Survey Art Hist: Prehistoric Times-Mid Ages
ART 202/W: Survey Art Hist: Early Renaissance-Present
ART 203: History of Interaction Design
ART 242: Italian Renaissance Art
ART 303: MesoAmerican Art History
ART 304: Global Art History
ART 305: Contemporary Art History
EGL 201: English Lit: Old English-18th Cent
EGL 202: English Lit: 19th Century-Present
EGL 203: American Lit: Beginnings-1865
EGL 204/W: American Lit: 1865 to Present
EGL 206: World Lit: Early Classics
EGL 207: World Lit: The Moderns
EGL 211: Children in American Literature
EGL 212: Intro to Fiction
EGL 213: Contemporary Jewish American Fiction
EGL 235/D: Caribbean Literature
EGL 239: Television, Genre, and Culture
EGL 246: Themes in Literature
EGL 250/W: Young Adult Literature
EGL 255: Children's Literature
EGL 307/W: Special Topics in Literature
EGL 312/W: Major Authors in American Lit
EGL 314: Major Authors in World Lit
EGL 316/W: Women in Modern Literature
EGL 322: Leadership: Fact, Fiction, Film
EGL 323: Major Authors: British Literature
EGL 325: African American Literature
EGL 326: Advocacy and Social Justice
HOR 350/W: History of Garden Design & Land
HPW 245: Ethics in the Health Professions
MLG 304: French Culture & Civilization
MLG 306: Italian Culture & Civilization
MLG 310: Latin American Women Writers
MLG 311: Italian American Experiences
MLG 312: Contemporary Latin Amer Short Stories
MLG 313: Sci, Lit & Film in Hispanic World
MLG 315: Art Culture & Civil of Spain

MLG 316: French Fables and Folktales
MLG 317: The Arab-American Experience
MLG 320: Latino Writers in the U.S.
MLG 321: Chinese Culture & Civilization
MLG 322: The Latin American Novel
MLG 326: French and Francophone Literature
MLG 333: Languages of the World
MUS 108: Survey of Western Music
PHI 100: Critical Thinking
PHI 102: Introduction to Humanities
PHI 105: Phil: Classical and Medieval
PHI 106: Phil: Modern and Contemporary
PHI 110: Philosophy, Politics & Society
PHI 205/H: Ethics
PHI 230: Philosophy Through Film

Social Sciences
ANT 100: Introduction to Anthropology
ANT 110: Sociocultural Anthropology
ANT 120: Introduction to Archaeology
ANT 210: Anthropology & Globalization
ECO 110: Intro to Personal Finance
ECO 120: The Global Economy
ECO 156: Prin of Economics (Macro)
ECO 157: Prin of Economics (Micro)
ECO 321: Engineering Economics
GEO 110: Maps and Map Analysis
GEO 222: Human Geography
GIS 101: The Digital Earth
HPW 101: Perspectives on Health & Wellness
MLG 327: Indigenous People in Latin America
POL 105: Introduction to Politics
POL 250: American Politics
POL 251: State and Local Government
POL 262: Global Politics
PSY 101: Introduction to Psychology
PSY 232: Child Development
PSY 234: Social Psychology
PSY 238: Psychology of Human Sexuality
SOC 122/W: Introduction to Sociology
SOC 150: Introduction to Africana Studies
SOC 200: Intro to Women's Studies
SOC 225: Sociology of the Family
SOC 228: Society & Health
SOC 229: Race and Ethnic Relations
SOC 231: Multiculturalism
SOC 238: Youth Culture
SOC 282: Introduction to LGBTQ+ Studies
STS 305 Research Ethics in a Diverse and Inclusive World

The Arts
ARC 100: Intro to Architecture &Culture
ART 304: Global Art History
ART 305: Contemporary Art History
EGL 200/W: Shakespeare
EGL 210/W: Intro to Dramatic Literature
EGL 214/W: Intro to Poetry
EGL 216: Creative Writing
EGL 221: Dystopian Film and Literature
EGL 225/W: Images of Women in Drama
EGL 228: Classics & Myth in Pop Culture
EGL 240: Themes Sci Fiction Film & Lit
EGL 242/W: Film and Literature
EGL 244: Classics Supernatural Film & Lit
EGL 266: Fantasy in Literature & Film
EGL 269/W: Romantic Art: Art/Dance/Lit/Music
EGL 302: The 19th Century English Novel
EGL 308/W: The City: Lit, Art, Film & Theatre
EGL 309: Voices Black American: Poetry,Prose
EGL 319: Modern Drama
EGL 330/W: Classical Greek Tragedy
EGL 331: Death, Madness & Sex: Victorians
EGL 333: Contemporary Irish Drama Text
GIS 105: The Art of Maps
HOR 223T: Floral Design I- Basics
IXD 101/H: Design Thinking
IXD 102: Design for Game Play
MLG 300: International Cinema
MLG 301: Italian Cinema (In English)
MLG 302: Spanish & Latin Amer Cinema
MLG 303: French Cinema (In English)
MLG 307: French & Francphone Fic & Film
MLG 309: Arabic Cinema
MLG 314: Hispanic Fiction to Film
MLG 318: Italy: From Text to Film
MLG 319: Italian Migrations to the Americas in Film
MLG 323: The Holocaust in Italian Culture
MLG 324: Italian Horror Films: Sex, Murder and Social Criticism
THE 233: Introduction to Theatre
VIS 101: Introduction to Drawing
VIS 102: Interrelationship/Art & Music
VIS 103: Introduction to Watercolor
VIS 104: Introduction to Calligraphy
VIS 105: Intro to Photography
VIS 106: Introduction to Pastels
VIS 107: Introduction to Collage
VIS 114: Principles of Color
VIS 115: Three-Dimensional Design
VIS 215: Introduction to Animation
VIS 216: Painting I
VIS 217: Introduction to Printmaking
VIS 260: Graphic Design for Non-Majors
VIS 265: Web Design for Non-Majors

US History and Civic Engagement
HIS 103: American Revolutions
HIS 121: U.S. History to Reconstruction
HIS 122: U.S. History since Reconstruction
HIS 127: Sports in American History
HIS 130: African American HIS to 1865
HIS 131: African Amer History Since 1865
HIS 132: The Myth of the Great American Melting Pot
HIS 222: Women in U.S. History
SOC 223: Social Issues and Institutions

World History & Global Awareness
ANT 130: Indigenous Peoples of North America
ANT 211: Caribbean Cultures
GEO 211: The World and Its Peoples
GEO 231: Europe and Its Peoples
GEO 232: North America and Its Peoples
HIS 101: Themes in World History
HIS 114: Western Civilization I
HIS 115: Western Civilization II
HIS 117: World Civilization I
HIS 118: World Civilization II
HIS 160: Exploitation and Sexploitation in World History
HIS 212: Modern World
HIS 213: Peoples & Cultures of Asia
HIS 215: The World of Islam
HIS 216: History Ctrl Asia: Genghi-Borat
HIS 217: From Constantine to Columbus
HIS 233: Comparative Religions/Cultures
HIS 270: Genocide in the 20th Century
HIS 280: Caribbean History
HIS 281: Modern Latin America
HIS 351: The Ottoman Empire & Modern Turkey
MLG 305: Hispanic &Latin Amer Cult &Civ
MLG 308: Arabic Culture & Civilization
MLG 325: Visions East Hispanic Civilization
POL 273: Italian Politics & Society

World Languages
Note: While Level I language will satisfy the competency area, it may not satisfy program requirements; students are strongly advised to consult with an academic advisor on this particular general education area.

ARA 131: Arabic I (Elementary)
ARA 132: Arabic II (Elementary)
ARA 233: Arabic III
ARA 234: Arabic IV
ASL 101: American Sign Language I (Elementary)
CHI 151: Chinese I
CHI 152: Chinese II
FRE 101: French I (Elementary)
FRE 102: French II (Elementary)
FRE 203: French III (Intermediate)
FRE 204: French IV (Intermediate)
GER 111: German I (Elementary)
GER 112: German II (Elementary)

GER 213: German III Intermediate
GER 214: German IV Intermediate
ITA 121: Italian I (Elementary)
ITA 122: Italian II (Elementary)
ITA 125: Italian for Business
ITA 223: Italian III (Intermediate)
ITA 224: Italian IV (Intermediate)
RUS 101: Russian I (Elementary)
RUS 102: Russian II (Elementary)
SPA 140: SPA for Law Enforcement
SPA 141: Spanish I (Elementary)
SPA 142: Spanish II (Elementary)
SPA 145: Spanish for Medical Personnel I
SPA 146: Spanish for Medical Personnel II
SPA 147: Spanish for Business I
SPA 243: Spanish III (Intermediate)
SPA 244: Spanish IV (Intermediate)
SPA 250: Spanish for Native Speakers
SPA 251: Spanish Comp. & Conversation

WAIVERS: Waivers in any specific competency area will be addressed on an individual basis under advisement. AP, CLEP, LOTE and REGENTS can be considered for waivers.

Any student who applies for and is granted a waiver in a particular competency area must still complete the minimum General Education credit requirement of their degree program. The number of credits waived may be applied to "elective" courses in any of the ten competency areas at the students' discretion though the College recommends that this be done under advisement.

Foreign Language Requirements Policy
The foreign language requirement for the SUNY GE at Farmingdale State College requires students in most programs to successfully complete a course in the foreign language competency area. Some majors require a minimum proficiency of a Level II or higher foreign language. Language training must be taken in sequential order. Students who wish to register for a Level II course must have successfully completed a college Level I course (or three to four years of study in that same language in high school) or take a placement examination offered by the Modern Language Department.

The following provisions exempt a student from the Level I and Level II requirement:

- A student who has documentation of completion of primary education abroad in a foreign language other than English (this documentation must include a certified translation).
- A Regents, LOTE (Language other than English) exam or FLACS Checkpoint B of 85 or above.
- Advanced Placement examination in a foreign language with a score of 3 or above.
- International Baccalaureate examination in a foreign language with a score of 4 or above.
- A CLEP exam score of 50 or above.
- A foreign language proficiency exam offered by the Modern Languages Department.
- A Seal of Biliteracy

Students who are exempt from the foreign language requirement, may be required to take a higher level foreign language course, a foreign language culture/cinema course offered through the Modern Language Department or a liberal arts course to satisfy the credit requirements of the major. Students should consult with their academic advisor regarding this matter.

The Modern Language Department currently provides Proficiency Testing (credit by evaluation) in the following languages: Arabic, Bengali, Chinese (Mandarin), Ethiopian, French, German, Greek, Hebrew, Hindi, Italian, Japanese, Korean, Persian (Farsi), Polish, Portuguese, Punjabi, Rumanian, Russian, Slovak, Spanish, Tamil, Turkish and Urdu. Students who successfully pass the exam will have three credits in Foreign Language.

If a student seeks exemption based on knowledge of a language not found on the list above, the student must take a language test administered by the Foreign Language Proficiency Testing Service of the New York University School of Continuing and Professional Services. If the student achieves a score of 8 or above on this test, they may receive up to six credits in foreign language. If the student's score is 5-7, the student must enroll in one of the Modern Language Department's elective culture/cinema courses taught in English to complete this requirement.

Consideration for a foreign language waiver/substitution for students with disabilities
To be considered for a Foreign Language Waiver (and then a course substitution), a student must be registered with the Disability Services Center (DSC).

The student requesting the foreign language waiver will provide documentation that explains the appropriateness of this request. An example could be documentation that explains a language processing problem. Documentation will be reviewed by the director of the DSC and a determination will be made.

Students are strongly encouraged not to wait until the final year of FSC to make this request. Not all requests are approved. When a foreign language waiver is approved, the student is required to substitute a Modern Language Course(s), (MLG) taught in English to fulfill the requirement in their curriculum.

APPLIED LEARNING GRADUATION REQUIREMENT

All students entering baccalaureate programs will be required to fulfill the Applied Learning Graduation Requirement. This means that they will be expected to earn passing grades in designated Applied Learning full or enhanced courses satisfying the requirement or successfully complete a minimum of ten hours of pre-approved Applied Learning co-curricular activities. Consult with your program advisor to make sure you meet this requirement.

For additional information about Applied Learning and satisfying the graduation requirement, visit: https://www.farmingdale.edu/nexus-center/applied-learning.shtml

Campus-Wide Applied Learning Outcome
Graduates will apply the knowledge and skills learned in the classroom to real-world challenges within their chosen field of practice.

Campus-Wide Applied Learning Objectives:
Graduates are expected to:

1. Use reflective skills to evaluate personal performance and make positive experience-based changes.
2. Interact effectively with others, considering their diverse backgrounds, to work competently in cross-cultural situations.
3. Engage in their communities as active citizens who are prepared to contribute to the public good.

WRITING INTENSIVE GRADUATION REQUIREMENT

Effective Fall 2005, all students entering baccalaureate programs must complete at least one writing-intensive course (identified with a W after the course number) with a grade of C or better to meet graduation requirements. Courses where the subject is writing (such as EGL 102, EGL 310, or BUS 141) may be required in your degree program, but they do not fulfill the Writing in the Discipline (WID) requirement.

Most majors have a designated course within the structure of their curriculum to incorporate this requirement into the program coursework. Consult with your academic advisor to make sure you meet this requirement. Electives vary each semester, so consult the list of writing-intensive courses on the course listing website. The prerequisite for all WID course includes completion of EGL 101 with a grade of C or better, and may also include other prerequisites specific to the particular course.

FIRST YEAR EXPERIENCE (FYE) GRADUATION REQUIREMENT

Effective Fall 2024, all first-time, full-time students must successfully complete FYE 101: First Year Experience as a requirement for graduation. Consistent with Farmingdale State College's commitment to student success, this one-credit requirement is designed to assist students in their transition to the college environment by providing essential resources, academic planning tools, and strategies for long-term achievement.

ACADEMIC SERVICE DEPARTMENTS

AIR FORCE ROTC

The preparation of future Air Force officers is provided through the Air Force ROTC program. The curriculum provides the individual with a firm understanding of the concepts of aerospace power and the Air Force mission, organization, and operations. All ROTC courses are conducted at Manhattan College in the Bronx.

Enrollment in the AFROTC is voluntary and accomplished through the fall and spring registration periods. Scholarships are available in many academic disciplines on a competitive basis. Approximately one-third of the students hold scholarships. Depending on the semester, approximately one-third of the cadet corps consists of women. All Air Force career fields are open to women, including pilot positions.

General Program
Air Force ROTC offers an option of a three-year or four-year program. The program consists of the General Military Course (GMC) during the freshman and sophomore years and the Professional Officer Course (POC) for the remaining two years of college. All cadets participate in a four-week training period during the summer between their sophomore and junior years. Those students who elect to participate in the three-year option will complete the AFR 100 and 200 series of classes concurrently prior to attending field training.

Active Duty Obligation
There is no active duty obligation for enrolling in either the freshman or sophomore AFROTC courses. Students who accept award of an AFROTC scholarship incur a four-year active duty commitment. Students, upon commencement of the first academic term after completing field training, incur a four-year active duty commitment. Students who complete the Air Force ROTC program and receive a commission, incur a four-year active duty commitment. Flying officers serve additional commitments from the time they complete their pilot training.

Air Force ROTC Minor
The College offers an Air Force ROTC minor for baccalaureate students enrolled at Farmingdale who wish to enhance their studies with a minor. Visit the webpage or the section on minors in the college catalog. For further information, contact the Department of Aviation at 934-420-2308.

BIOLOGY DEPARTMENT

The Biology Department, which offers a four year degree program in Bioscience, provides a broad range of introductory courses and electives in support of the various curricula offered by the college, including Nursing, Dental Hygiene, Medical Laboratory Science and others. In addition, several courses offered by the Biology Department fulfill the Natural Science General Education requirements and Liberal Arts electives.

The department offers a range of courses in various fields of Biology, including Human Biology, Anatomy & Physiology, Medical Microbiology, Nutrition, Botany, and Entomology. Most of the courses offered by the department include both lecture and laboratory components, providing the students with both theoretical knowledge as well as hands-on experience. These courses introduce students to the complexities of living organisms, and train students in critical thinking skills and the scientific method.

Students not interested in pursuing a science-related career may choose from a variety of non-major courses, including the lab-based BIO 120 General Biology, BIO 123 Human Biology, and BIO 135 Marine Science (4 credits each), or BIO 121 Health, Heredity and behavior and BIO 197 Human Biology, which are lecture-only (3 credits each).

CHEMISTRY DEPARTMENT

The Chemistry Department offers courses to students who are planning to enter a baccalaureate program and/or to those whose goals include more immediate employment.

A program which includes an emphasis in chemistry would be applicable to the following career areas: chemistry, chemical engineering, medicine, dentistry, pharmacy, biology, forensic science, allied health professions and other professions which require a foundation in science.

An emphasis in chemistry, which is designed to be transferrable to a baccalaureate program, may be taken under the auspices of the Liberal Arts and Sciences Department (consult the specific department for details).

In its supportive role, the Chemistry Department offers courses that fulfill the General Education Natural Sciences requirement. Also, the department offers additional support courses to students enrolled in the following areas (consult the department for details): Bioscience, Civil Engineering Technology, Dental Hygiene, Health Promotion and Wellness, Mechanical Engineering Technology, Medical Laboratory Science, Nursing, Nutrition Science, and Science, Technology, & Society.

ECONOMICS DEPARTMENT

The Economics Department offers a four year degree program in Applied Economics, as well as a broad range of introductory courses and electives in support of the various two and four year curricula offered by the college. Students enrolled in courses such as Principles of Macroeconomics or Microeconomics, as well as other offerings, will be able to satisfy their Social Science General Education requirements and additional elective or program requirements.

The department offers a wide range of economics courses that provides students with a broad understanding of our economic system and its application to modern economic problems. These courses include basic Macroeconomics and Microeconomics that satisfy the Social Science requirements of the General Education Program and also serve as foundations for the Applied Economics and Business Management degree programs. The department also offers a number of service and elective courses such as Labor Economics and Labor Relations, and Engineering Economics to satisfy the curricular needs of other programs on campus.

ENGLISH DEPARTMENT

Offerings in English are designed for a variety of purposes. Developmental English prepares students with the communication skills necessary for successful college-level work. Composition and literature courses involve the students in the achievement of greater writing and reading skills and in gaining insight into the human experience. All courses are designed to provide the necessary background for a college education.

EGL 101 Composition I: College Writing is the first part of a required sequence in college essay writing. Students learn to view writing as a process that involves generating ideas, formulating and developing a thesis, structuring paragraphs and essays, and revising and editing drafts. The focus is on the development of critical and analytical thinking. Students also learn the correct and ethical use of print and electronic sources. At least one research paper is required. Completing the class with a grade of C or higher is a graduation requirement.

EGL 101E Composition I: College Writing Extension
This section of EGL 101E provides additional support from your instructor in addition to class time. English 101E students participate in one-hour sessions on their assigned day and time, and participation is required to pass EGL 101E with a C or higher and progress to EGL 102. Both EGL 101 and EGL 102 are required for graduation. This is the first part of a required sequence, EGL 101 and EGL 102, in college essay writing. Students will learn to approach writing as a recursive process that involves generating ideas, formulating and developing a thesis, structuring paragraphs and essays, and revising and editing drafts. The focus of this course is on the development of critical and analytical thinking. Students will also learn the correct and ethical use of print and electronic sources. Research papers are required. Students are required to participate in an additional practicum hour of class.

Note: This section of EGL 101 provides additional support from your instructor in addition to class time. English 101E students participate in one-hour sessions on their assigned day and time, and participation is required to pass EGL 101E with a C or higher and progress to EGL 102. Both EGL 101 and EGL 102 are required for graduation.

Prerequisite(s): Placement during advisement:

For placement in EGL 101 Composition I: College Writing

Incoming students who have received a score of 83 on the ELA Regents exam will be placed in English 101.

Students who have received a score between 71 and 82 or have not taken the ELA Regents Exam can take the Guided Self-Placement (GSP) survey otherwise, they will be placed in EGL 101E.

For placement in EGL 101E Composition I: College Writing Extension

Incoming students who have received a score of 70 or below on the ELA Regents exam will be placed in EGL 101E.
Incoming students who have not taken the ELA Regents exam or the GSP will be placed into EGL 101E.

The English and Humanities Department and the Writing Center will offer the GSP survey during the winter break, the spring semester, and early summer. Please call the Writing Center at 934-420-2082 for more information about GSP. As of spring 2022, in-class writing placement exams will not take place in the first week of English 097, 101E or 101.

Humanities: Offerings in the Humanities are designed to expose students to the humanistic tradition in the disciplines of philosophy, speech and the creative arts. All courses are designed to provide the necessary background for a college education.

HISTORY, POLITICS AND GEOGRAPHY DEPARTMENT

The History, Politics and Geography department offers four year degree programs in Geographic Information Systems and Public Administration and Policy, five academic minors and a broad range of introductory courses and electives in support of the various two and four year curricula offered by the college. Students enrolled in courses such as U.S. History to/since Reconstruction, Western Civilization I and II, and World Civilization I and II, as well as other offerings, will be able to satisfy their American History, Western Civilization, and Other World Civilizations General Education requirements and additional elective or program requirements.

The History program seeks to develop a broad historical perspective necessary for an understanding of our contemporary world. The course offerings include a study of the Ancient World, European and American history, and non- Western history. These courses serve as part of a liberal arts education and also provide the necessary background to pursue advanced courses. Upper level courses focus on specific countries/world regions, historical issues, and/or themes, including but not limited to science and technology, gender, media, religion, imperialism, terrorism, and healthcare. The objective of Political Science courses is to provide students with an understanding of the political system of the United States and other countries. Courses cover the structure of state, local and national government, comparison of the political processes in foreign governments, and the study of America's post-World War II foreign relations. Students are prepared for advanced courses in Political Science as well as to pursue careers involving knowledge of our political system. Upper level courses focus on specific countries/world regions, sub- disciplines in the field, and/or themes and issues, including but not limited to political theory, mass media, religion, popular culture, and the environment. (Prefix for Political Science is POL)

The Department's offerings in Geography enable students to expand their spatial knowledge of the earth and all of its hu- man and natural complexities. To understand where things are found, why they are there, and how they develop and change over time. Courses are divided between technology-centric offerings, including introductory and advanced courses in geographic information systems (GIS), quantitative methods, cartography, and spatial analysis, as well as introductory and advanced courses in physical, environmental, and human geography. Students may also select from specialized topics-based courses in Geography including; urban geography, population geography, political geography, economic geography, medical geography, human- environment interactions, regional geography, remote sensing, and geospatial intelligence courses.

History, Politics and Geography also houses the campus chapter of the Phi Alpha Theta: National History Honor Society. Well-qualified students are invited to contact the department secretary for more information.

MODERN LANGUAGES DEPARTMENT

The Modern Languages Department is a language and cultural hub on campus for students to deepen their knowledge and appreciation of other languages and cultures. Students will develop critical and analytical thinking skills while broadening their vision of the world. Proficiency in languages and competence in cultures enhance career opportunities and prepare students to become global citizens.

As department goals, we work to prioritize student success by fostering language proficiency and intercultural competence, preparing students to engage responsibly in an interconnected world and to cultivate global citizenship. We aspire to support a vibrant culture of inquiry by advancing faculty research and creative work. The department promotes interdisciplinary collaboration and aims to contribute to the intellectual and cultural life of the campus and surrounding communities. We are committed to creating inclusive and equitable learning environments.

The department offers language courses of Arabic, Chinese, French, German, Italian, Russian, and Spanish. Spanish offers general track Spanish (I-III), and professional track including Spanish for medical personnel, business and law enforcement, as well as Spanish for Heritage Speakers. All language course offerings satisfy General Education languages. Language course offering pattern: Level I and II in every semester: French, Italian, Spanish. Level I every semester and level II in Spring semester: Arabic, Chinese, German, Russian.

Additionally, the department offers MLG courses taught in English, which study worldwide cultures, literatures and cinema, and satisfy Gen Ed Arts, Humanities or Social Science, liberal arts electives, and some of which are DEISJ and Applied Learning courses.

The department offers Minors in Francophone Studies, Italian Studies, and Latin American Studies, as well as Microcredentials including Global & Cultural Awareness, and Spanish Language & Cultural Competence.

The department also provides Proficiency Testing (credit-by-evaluation) to native or near native speakers.

PHYSICS DEPARTMENT

The Physics Department at Farmingdale State College offers a Bachelors of Science in Applied Physics which provides its students with an understanding of the interactions among all forms of matter, energy, and space. Toward this end, the Department offers each student a physics education carefully tailored to suit their needs at all levels of baccalaureate education.

Students pursuing science-related or technically-oriented degrees take either the algebra-based College Physics sequence (PHY 135 and PHY 136) or the calculus-based Physics sequence (PHY 143 and PHY 144). Students who complete these sequences may also choose from a number of electives covering such fields as electromagnetic theory and modern physics.

Students not pursuing a science-related field of study may choose from among a diverse assortment of physical science courses, including astronomy, meteorology, geology, and the environment. These specialized courses for non-science students are taught by faculty with strong interest and expertise in the respective sub-disciplines. Students have the opportunity to taste the flavor of science and to appreciate its value to humanity in a technical society.

The Department of Physics offers a rich Minor program for those interested in extra rigor in the discipline.

The Department of Physics conducts research in experimental condensed matter physics, astrophysics, nuclear and particle physics. Students are heavily involved in all research investigations.

PSYCHOLOGY DEPARTMENT

Courses offered by the Psychology Department have been designed to expose the student to a broad spectrum of theories regarding the nature of scientific study of human behavior. In addition to meeting the specific requirements of Farmingdale State College, the courses assist the student in understanding and coping with processes experienced on a personal and societal level. The course offerings in Psychology seek to inform, stimulate,

and promote an inquisitive attitude regarding scientific study of human behavior.

The Psychology Department offers a Bachelors Degree in Applied Psychology.

SOCIOLOGY AND ANTHROPOLOGY DEPARTMENT

Sociology is the scientific study of human social interaction. Our courses explore issues of diversity, the complexities of intimate relationships and family life, the causes and contours of inequality, and the workings of social institutions such as the educational system and mass media. Our overriding goal is to develop what the sociologist C. Wright Mills called the "sociological imagination" – specifically, to encourage students to understand their own personal lives and experiences in the context of larger social forces and processes, and to become more engaged and aware citizens. Courses in sociology are an excellent preparation for a variety of jobs in small businesses, large corporations, government agencies, non-profit organizations, community organizations, and research firms.

Anthropology deals with human evolution, cultural history, language, and sociocultural similarities and differences. Anthropology courses provide knowledge about the history, diversity, and development of the world's human populations. An anthropological perspective helps students appreciate and understand their position, and the position of others in our rapidly changing world.

The discipline of Anthropology provides students with the tools and perspectives necessary for understanding how humans and their cultures have developed and most critically, how we continue to develop and change our cultures and societies. The fundamental concepts, theories, and research methodologies of Anthropology provide students with useful tools for understanding human cultures and the various social institutions in which we all participate, enabling them to meet the many challenges of living and working in what has been termed "the global community."

MATHEMATICS DEPARTMENT

The Mathematics Department offers a Bachelor of Science degree in Applied Mathematics. The department also offers a number of service and elective courses such as Statistics, Precalculus, and Precalculus with Applications to satisfy the Mathematics & Quantitative Reasoning requirements of the General Education Program. In addition, the department offers courses ranging from introductory to advanced courses in support of various two- and four-year programs offered by the college.

The department offers a wide range of mathematics courses that provide students with a broad understanding of mathematics and its application to fields such as finance, computer science, engineering technology, economics, or natural and social sciences. These courses include Calculus I and Calculus II that satisfy the Mathematics & Quantitative Reasoning requirements of the General Education Program and also serve as foundations for the Applied Mathematics degree program.

GRADUATE PROGRAM INFORMATION

ADMISSIONS REQUIREMENTS

Admission to graduate programs at Farmingdale State College requires applicants to have both the ability and preparation necessary for satisfactory progress in the degree program.

Admissions requirements for graduate programs are program specific. Please visit our Graduate Admissions page for information on each program.

Students who already hold an advanced academic degree from any university may not earn a second degree from Farmingdale State College at the same level in the same discipline.

International Graduate Students
International students are individuals who are not U.S. citizens, permanent residents, or do not have refugee status in the U.S. Students attending on an F-1 Student Visa must be enrolled full time (9 credits) and submit the following information along with their application:

1. Farmingdale State College requires that foreign credentials be evaluated on a course-by-course basis by a member of NACES www.naces.org; World Education Services www.wes.org or Spantran www.spantran.com are recommended. Undergraduate records must reflect academic achievement equivalent to the minimum for admission, 3.0 grade point average (GPA), when converted to the American grading scale. A transfer GPA of at least C+ is required of international students who wish to transfer from other colleges in the United States.
2. Applicants whose native language is not English must demonstrate English language proficiency by satisfying the requirements as listed on the International Education and Programs page, or submit an official transcript from an accredited U.S. college with a grade of C+ or better in a college level writing course.

Non-Matriculated Graduate Students
Non-matriculated students who wish to take graduate level courses are required to submit a copy of their official transcripts from all prior colleges and universities attended to the Admissions Office along with a copy of their resume. Students must also pay a $50 graduate non-matriculation fee and complete an application.

The maximum number of credits a Non-Matriculated graduate student may take at Farmingdale is 6 credits. After accumulating 6 credits, the Non-Matriculated graduate student must discuss the advisability of completing a degree at Farmingdale with the Graduate Program Coordinator. Non-matriculated students must maintain the same academic standards as matriculated students, i.e. a GPA of 3.0 or above to remain in good academic standing (a GPA of 3.0 will not ensure admission to a graduate program). If suspended from the College, the student may appeal for academic reinstatement in writing to the Graduate Program Coordinator.

Any student seeking to continue beyond 6 credits with Non-Matriculated graduate student status must petition the Provost's Office for permission to do so. Students seeking such permission should begin by meeting with the Graduate Program Coordinator to complete an appeal entitled "Request to Remain in Non-Matriculated Student Status beyond 6 Credits."

More information, including the Non-Matriculated Students Handbook, can be found on the Non-Matriculated Students page.

Credit by Evaluation
Students enrolled in the graduate program may apply for and be granted up to 6 credits through either Credit by Evaluation or transfer credits from another institution. A fee of $40 per credit will be charged for each examination, and this fee is subject to change without prior notice. Credit may be granted for coursework where the individual has gained knowledge and mastery through experience or study at a non-accredited institution.

Students must apply for credit by evaluation by submitting a written request to the Graduate Program Coordinator detailing the coursework for which credit is being sought and the manner by which mastery of this coursework was attained. Approval for seeking credit is granted at the discretion of the Graduate Program Coordinator or Dean. The Graduate Program Coordinator will determine the method of evaluation and make appropriate arrangements. Credit gained through credit by evaluation shall be considered full college credit and need not be made up by other courses. However, no achievement points shall be awarded for credits granted through evaluation.

How to Apply

To be considered for admission, all applicants must submit a completed application online. Conversely, applicants can submit the application and required documents to the Admissions Office at:

Office of Admissions
Laffin Hall
Farmingdale State College
2350 Broadhollow Rd
Farmingdale, NY 11735

The following documentation is required and should be sent via email to processing@farmingdale.edu with subject line "Graduate Admissions Processing" or by mail to address above:

- Official transcripts from all prior colleges/universities in which a degree was conferred. Previous or current Farmingdale students do not need to send official documents of their coursework at Farmingdale but must list Farmingdale as a College graduated on the application.
- Transfer Students - Applicants who have earned graduate credits at another accredited institution will be evaluated based on the same admissions criteria listed above and are eligible to receive a maximum of six credits by evaluation toward their degree.
- If applicable, applicants must also submit one official copy of any transcript relating to any graduate level work undertaken, regardless of whether or not a degree was earned.
    - Note: Educational systems that cannot be compared to the United States must be evaluated by a US credentials evaluation service before admission can be finalized.
- Personal Statement.
- Documented proficiency in English for international students (see the English Proficiency Requirements for Non-Native Speakers of English below for details).
- Applicants who are not applying directly from the undergraduate program are encouraged to submit a resume detailing relevant work experience.
- Applicants may submit letters of recommendation for consideration

Application Deadlines
Fall acceptance – August 1
Spring acceptance – January 20

Admissions Appeals
Applicants who are denied admission and wish to request reconsideration of their application must submit the admissions appeal form. Updated information should be attached to the appeal form on the admissions website.

ACADEMIC INFORMATION FOR MASTER'S DEGREE

Grades and Achievement Points (percentage equivalent per credit hour):

Minimum Grade Percentage Equivalent	Grade	GPA Equivalent	Interpretation
90.0	A	4.0	Excellent
80.0	B	3.0	Good
70.0	C	2.0	Unsatisfactory
0*	D	0.0	Failure
	I		Incomplete
	W		Withdrawal
	UW		Unofficial Withdrawal

*All grades below 70.0 receive a D and are considered failing grades.

The cumulative grade point average is determined by the achievement point value of each grade by the credits designated to each course, and then dividing the total achievement points by the number of credits carried.

Students whose cumulative grade point average falls below 3.0 in any given semester are placed on academic probation and given one semester to demonstrate improvement. Students who fail to demonstrate improvement will be considered for suspension or dismissal.

ACADEMIC STANDING FOR GRADUATE STUDENTS

Good Academic Standing – A student is considered to be in good academic standing by maintaining a cumulative grade point average of 3.0 or higher.

Academic Probation – The purpose of academic probation is to alert the student and the institution of problems associated with the student's academic performance and to implement strategies for improvement. Students on academic probation are permitted to continue with their studies but are expected to pursue strategies for improvement and raise their level of academic performance.

Academic Suspension – Students on academic probation who fail to raise their level of academic performance in the semester following their placement on academic probation (not including summer sessions or winter intersession), are subject to suspension. Students suspended for poor academic performance are not permitted to continue their studies at the College.

Appeal of Academic Suspension – Any student who has been suspended for academic reasons may appeal that decision by submitting a petition, in writing, to the Graduate Program Coordinator requesting a review of the decision. The appeal should include supporting evidence such as medical explanations and changes in grades that might justify a reversal of academic suspension.

Academic Readmission – Academic readmission refers to the process by which a matriculated graduate student seeks permission to return to Farmingdale State College after an absence. Students who have discontinued their attendance for one or two academic semesters and wish to apply for readmission to complete their degree are required to meet with the Graduate Program Coordinator to discuss their intentions and evaluate their academic record. Students who withdrew in poor standing or who were academically suspended will be expected to present evidence that they are capable of improved academic performance on return. For further information, contact the Graduate Program Coordinator.

Residency Requirement- Candidates for a Master's degree must complete a minimum of twenty-four (24) semester credits at the College. The twenty- four (24) credit minimum will consist of the final degree credits. Consideration will be given to credits earned through study abroad, exchange programs, or advanced standing (e.g., credit by evaluation, etc.). Any exception to the residency requirements are at the discretion of the Graduate Program Coordinator.

REQUIREMENTS FOR GRADUATION

1. Recommendation by student's mentor and the Graduate Program Coordinator.
2. Satisfactory completion of the minimum number of credits required by the program.
3. Satisfactory completion of coursework in the students chosen track of study.
4. Satisfactory completion of the master's project or master's thesis if applicable to the student's chosen track of study.
5. A cumulative GPA of 3.0.
6. All outstanding incomplete grades must be resolved.
7. The residency requirement of 24 credits successfully completed has been met.

GRADUATE STUDENT FINANCIAL AID

Graduate students at Farmingdale State College may be eligible for federal loans to help them finance their education. There are two federal loan options: Federal Direct Unsubsidized loans and Federal Graduate PLUS loans. Graduate students must be enrolled in 6 or more semester credits that apply to their current academic program and meet the Graduate Satisfactory Academic Progress Standards to be eligible for federal loan funding.

Federal Unsubsidized Loan
Graduate students can borrow up to $20,500 in Federal Direct Unsubsidized loan funding (if eligible) each year. To determine eligibility students must complete a FAFSA application each year.

Graduate Plus Loan
To apply for the Graduate PLUS loan online, go to www.studentloans.gov. A credit check is performed as part of the application process. Applicants will receive an immediate credit decision. Award recipients must also complete an additional Master Promissory Note (MPN) for the Graduate PLUS loan at www.studentloans.gov.

Alternative (Private) Loan
Alternative, or private, loans are an additional resource for students to borrow from outside lenders. You can search "Alternative Student Loans" online.

GRADUATE SATISFACTORY ACADEMIC PROGRESS STANDARDS FOR FEDERAL FINANCIAL AID

The Graduate SAP Standards are utilized solely to determine federal financial aid eligibility. SAP financial aid eligibility standards do not cancel, modify or override the College Academic Standards Policy.

Qualitative and Quantitative SAP Standards
The following SAP standards must be met:

1. Cumulative Grade Point Average (GPA) Component
   - A student must be in good academic standing to receive federal financial aid. A student must maintain a graduate level institutional cumulative GPA of 2.75.
2. Minimum Completion Rate for Attempted Credit Hours –Pace (Quantitative) Component
   - A student must demonstrate progress by accumulating academic credits at a rate that indicates graduation in a timely manner. A student who is not progressing toward graduation at a defined Completion Rate will not receive federal financial aid regardless of GPA.
   - A student must complete at least 75 percent of all cumulative attempted credits hours in order to be eligible for federal financial aid. The cumulative attempted credit hours include all accepted transfer credits.
     - The following grades are considered to be attempted but not successfully completed: W, F, N, UW, UWF
     - Courses repeated will count in attempted credit hours.

Financial Aid Warning/Suspension
A student who fails to maintain the cumulative GPA and/or meet Pace (completion rate) standard will be placed on Academic Warning for the next registered semester.

A student who continues to fall below the standards for a subsequent semester after the warning period, will be placed on Academic Suspension and be ineligible to receive federal financial aid until all SAP standards are met.

Students may appeal the loss of eligibility if mitigating circumstances (events totally beyond the student's control) occurred during the preceding semester.

GRADUATE TUITION AND FEES

Tuition and Fees
As of the publication of the catalog, tuition and fee amounts are the 2024/25 rates.*

Tuition
In the Fall and Spring terms, students taking 12 or more credits are considered full-time and pay the full-time flat rate. There is no full-time plateau for 12 or more credits in Intersession or Summer.

Graduate Tuition - NYS Resident	
Full-Time	$5,655.00/semester

Part-Time	$471.00/credit hour

Graduate Tuition - Non NYS Resident	
Full-Time	$11,550.00/semester
Part-Time	$963.00/credit hour

Room and Board

Residence Hall	
Single Room	$5107.00/semester
Double Room	$4,551.00/semester
Residence Hall Damage Deposit	$100.00/academic year
Common Area Damage Deposit	$75.00/academic year
Board ***The prices listed below are from 2025/2026 and are subject to change for the 2026/2027 academic year***	
All Access Plan	$2,999.00/semester
All Access VIP Plan	$3128.00/semester
Weekly 14 Plan	$2999.00/semester

Important information about our meal plans:

- Resident students living on campus are required to choose a meal plan
- Upperclassmen can from the All Access, All Access VIP or Weekly 14 meal plans
- If a student does not select a meal plan, they will be placed on the All Access plan, and the charge will automatically be added to the student's bill
- Students may upgrade to the All Access VIP meal plan
- Both meal plans offer unlimited meals in POPs residential dining hall
- The All Access plan offers $150 declining balance, 5 meal plan exchanges per week and 4 guest meals per semester
- The All Access VIP plan offers $200 declining balance, 7 meal plan exchanges per week and 6 guest meals per semester
- The Weekly 14 meal plan offers resident students 14 meals per week (Sunday to Saturday), offers a $300 declining balance, 5 meal exchanges per week and 4 guest meals per semester. Unused meals from one week will not carry forward to the next week.

Note: Unused meals will not roll over from semester to semester. Declining balance dollars will roll over from the fall semester to the spring semester. However, they will not roll over from academic year to academic year and will expire at the end of the spring semester.

For those students with conflicts in class and/or work schedules or any other concerns or questions, please see the Food Service Director. It is the student's responsibility to activate and validate their meal plan card with Campus Dining. The student is also responsible to notify the Residence Life Office or the manager of Campus Dining immediately, should there be any problems using their meal plan card or obtaining access to the campus dining facilities. Visit Dining Services and the Resident Student Handbook for more information.

Registration Fees

College Fee	
Full-Time	$25.00/semester
Part-Time	$1.70/credit hour

Other Registration Charges

Student Activity Fee	
Full-Time	$100.00/semester
Part-Time	$8.00/credit hour
Health Service Fee	
Full-Time	$172.00/semester
Part-Time	$14.30/credit hour
Note: Please be aware that this is not health insurance	
Technology Fee	
Full-Time	$222.00/semester
Part-Time	$18.50/credit hour
Transcript Fee	
Semester	$10.00/semester
Program Specific Fees	
Special Course Fees	For the specific courses, please go to Lab/Course and First Day/ Inclusive Access Fee Information
First Day/Inclusive Access Fee	For the specific courses, please go to Lab/Course and First Day/ Inclusive Access Fee Information

In some curricula and/or courses additional costs to the student may be assessed. Refer to the Fees section for details.

International Student Insurance	
Fall	$1,066.67
Spring	$1,052.73
Spring/Summer	$1,478.01

Other Registration Charges	
Payment Plan Set-Up Fee	$25.00
Late Registration Fee	$30.00
Late Payment Fee	Up to $50.00 per occurrence depending on liability
Program Change (Drop/Add Fee)	$20.00

Fines and Fees

Fines and Fees	
ID Card Replacement	$25.00
Return Check Charge	$20.00
Alumni Fee (optional)	$50.00 lifetime membership
Vehicle Parking Permit (per vehicle)	$30.00/academic year
Parking Citation	$35.00/violation

Parking Citation (Handicapped)	$150/violation
Parking Citation Late Fee	$15.00/after 20 days unpaid
Impound Vehicle Storage Fee	$10.00/day
Boot Fee	$35.00/day
Temporary Parking Permit Fee	$2.00/day

*Please note that tuition and fees are subject to change without notice by action of Farmingdale State College and/or SUNY Board of Trustees.

POLICIES AND GENERAL PROCEDURES

Unless otherwise stated, all policies and procedures detailed in previous sections of this catalog apply equally to all Farmingdale students. Please refer to the undergraduate sections for important information on the following:

- Student Immunization Policy (Health and Wellness Center)
- Residence Hall Information
- Student Code of Conduct
- Withdrawals (from a course, from the semester, from the College)
- Non-attendance Policy
- Appeal Process for Credit by Evaluation
- Repeating Courses
- Change of Grade
- Grade Grievance Procedure
- Incompletes
- DegreeWorks
- Campus Resources and Facilities

PROGRAM LIST

Construction Management

Master of Science Degree

The Master of Science in Construction Management at Farmingdale State College (FSC) is designed to prepare professionals for leadership roles in the planning, development, and management of construction projects. The program provides an exceptional and affordable opportunity for advanced study in construction management to qualified graduates of baccalaureate programs in construction management, architecture, engineering, engineering technology, and related fields. With the New York metropolitan area and Long Island serving as major centers of construction activity, the program closely aligns with the regional industry's needs, emphasizing sustainable practices, infrastructure development, and the integration of emerging technologies such as Building Information Modeling (BIM) and green construction methods. Students gain the knowledge and skills necessary to address the complex challenges of today's construction marketplace at both the regional and national levels.

Students may pursue the degree full-time or part-time, with the possibility of completing it in as few as two semesters. Most courses are scheduled in the evening to accommodate working professionals.

Accelerated Program

Current FSC undergraduates meeting minimum criteria may take up to two graduate courses, with permission of the Graduate Program Coordinator, during their undergraduate curriculum. Successful completion of two graduate courses will diminish the time and credits required to earn the graduate degree. Courses must be carefully selected in consultation with the undergraduate academic advisor or department chair.

FSC students who enroll in graduate courses as undergraduates are not automatically admitted to the Master of Science in Construction Management degree and must apply for admission to the graduate program and adhere to the requirements established for all applicants.

Typical Employment Opportunities

Project Manager
Construction Manager
Lead Estimator
Planning Manager
Site Supervisor
Contract Administrator
Virtual Design Director
Operations Supervisor
Green Building Manager
Construction Technology Director
Equipment Sales

Construction Management (MS) Program Outcomes:

- Graduates will have the knowledge and competency in integrating construction management principles to plan, execute, and control construction projects, including cost, schedule, quality, safety, and risk.
- Graduates will have the knowledge and competency in applying construction law, contracts, and procurement methods to manage risk, ensure compliance, and support effective project delivery.
- Graduates will have the knowledge and competency in evaluating construction methods, materials, and technologies, including BIM and sustainable practices, to improve project performance.
- Graduates will have the knowledge and competency in leadership, communication, and business management to lead teams and support organizational and financial decision-making.
- Graduates will have the knowledge and competency in ethical and professional practice, demonstrated through applied analysis addressing real-world construction management problems.

Core Courses	(24 credits)
ECM 502 Project Management	3
ECM 503 Research Methods	3
ECM 530 Residential Development Management	3
ECM 531 Construction Cost Analysis and Advanced Estimating	3
ECM 532 Legal Aspects of Construction Management	3
ECM 533 Heavy Construction Operation and Equipment	3
ECM 535 Virtual Design, Construction, and BIM	3
ECM 631 Construction Contracts	3

Capstone Courses (choose one)	(3-6 credits)
ECM 670 Master's Project*	3
ECM 671 Master's Thesis*	6

Technical Electives*	(3 credits)
ECM 513 Computer Applications in Engineering Technology	3
ECM 630 Decision Making and Risk Management	3
ECM 680 Special Topics in Technology Management	3

Degree Type: MS
Total Required Credits: 30

The following courses must be completed in residence at Farmingdale State College:

ECM 503 Research Methods
ECM 670 Master's Project
ECM 671 Master's Thesis

Notes: *There are two options for degree completion: Option 1: ECM 670 Master's Project plus at least one of the listed technical elective courses Option 2: ECM 671 Master's Thesis with no required technical elective course

Nursing Administration

Master of Science in Nursing Administration - Online

The Master of Science in Nursing Administration prepares registered nurses as administrators and leaders to assume the advanced practice nurse role within an evolving and global healthcare system. Caring for individuals with highly complex health issues requires registered nurses to be educated to provide evidence-based, patient-centered care focusing on health promotion and restoration. The program emphasizes the leadership, administrative, and management skills necessary to coordinate comprehensive care, collaborate with an interdisciplinary healthcare team, and implement strategies that improve the healthcare environment. Concepts related to health promotion, aging, cultural and ethnic diversity, and health policy provide foundational information essential to implementing health management across the age continuum and improved health outcomes of diverse populations. The curriculum for this graduate program uniquely integrates several courses related to older adults with the functional role of nurse administrator.

All applications must be received by May 15th for Fall admission.

Students who have previously been convicted of a felony are advised that their prior criminal history may impede their ability to complete the requirements of certain academic programs and/or to meet licensure requirements for certain professions. Students who have concerns about such matters are advised to contact the department chair.

Clinical Rotations
Matriculated nursing students must provide proof of citizenship or lawful immigration status to participate in certain clinical rotations. Students who are unable to complete clinical placements may not be able to fulfill graduation requirements.

Typical employment opportunities:
Administrative level nursing positions in hospitals, home health agencies, long-term care facilities, and primary and preventative care throughout the community.

MS Nursing Administration Program Goals:
- Integrate knowledge from nursing, arts, and sciences to develop socially responsible leadership skills that translate to advanced professional nursing practice based on emerging evidence.
- Apply leadership and administrative skills to support innovation and change, improve outcomes, and provide a safe environment for populations across the age continuum.
- Promote quality and safety initiatives affecting the delivery of nursing and healthcare services.
- Translate current research evidence to support policy changes that improve patient outcomes and address the needs of diverse patient populations across the age continuum.
- Use current and emerging technologies in the management of populations across the age continuum.
- Analyze health policies, advocacy models, and patient care delivery models to promote organizational excellence and influence determinants of health.
- Demonstrate collaborative strategies with inter-professional teams to improve patient care across the age continuum and population health outcomes.
- Demonstrate professional behaviors and leadership skills incorporating values, ethics, diversity, and professionalism in the practice environment.

Term 1: Fall 1	(# credits)
Course Number and Title	
NUR 500 Statistical Analysis for Evidence Based Practice	3
NUR 501 Nursing Research and Evidence Based Practice	3
NUR 502 Organizational Theory and Advanced Practice Roles	3
NUR 503 Health Policy and Current Issues	3
Term credit total:	12

Term 2: Spring 1	(# credits)
Course Number and Title	
NUR 520 Cultural and Ethnic Diversity in Geriatrics	3
NUR 521 Health Promotion for the Older Adult	3
NUR 550 Nursing Administration Theory and Practice	3
NUR 551 Hospital/Healthcare Management	3
Term credit total:	12

Term 3: Fall 2	(# credits)
Course Number and Title	
NUR 620 Healthcare Economics	3
NUR 630 Informatics and Healthcare Technology	3
NUR 650 Capstone Seminar	1
NUR 660 Administration Practicum	4
Term credit total:	11

Degree Type: Master of Science in Nursing Administration (MS)
Total Required Credits: # 35

Notes: 1. NUR 500 Pre-requisite - 3 credit undergraduate statistics course. 2. NUR 501 Pre-requisite - 3 credit undergraduate research course Co-requisite - NUR 500 3. NUR 550 Pre-requisite - NUR 502 4. NUR 551 Pre-requisite - NUR 502 5. NUR 650 Pre-requisite - All 500 level courses Co-requisite - NUR 660 6. NUR 660 Pre-requisite - All 500 level courses Co-requisite - NUR 650

Quality Assurance and Regulatory Affairs

Master of Science Degree

The Master of Science Degree in Quality Assurance and Regulatory Affairs at Farmingdale State College (FSC) is designed to graduate qualified professionals capable of taking leadership roles in the Quality Assurance and Regulatory Affairs systems that regulate the pharmaceutical, biologics, medical device, cosmetic and food industries in the country. This program will provide an exceptional and affordable opportunity for advanced study in the critical field of Quality Assurance/Regulatory Affairs to qualified graduates of baccalaureate programs in Bioscience, Biology, Chemistry and related fields. The multi-disciplinary program builds on the strengths of the faculty in the Bioscience, Mathematics, Professional Communications and Business Departments. Drawing on these strengths and addressing the industrial needs in the region, the program consists of a foundation of course work concluding with a capstone project or internship placement with a company or organization in this field. This degree can be earned with part-time or full-time study. Courses are generally offered in the evening, weekends or online to provide access for working professionals.

Quality Assurance and Regulatory Affairs Program Outcomes:

Graduates will be able to:

- Interpret and apply the requirements of the Food Drug and Cosmetic Act as implemented through CFR 21 sections that apply to drugs, biologics, cosmetic, food and devices
- Understand, analyze and apply the regulations governing the product development process, from discovery to marketing, including interactions with FDA and other regulatory agencies
- Define, validate, review and document procedures in a manufacturing facility that meets the standards of Good Manufacturing Practices
- Generate a Standard Operating Procedure for a manufacturing process that includes all of the elements necessary to ensure that the resulting product meets all quality control criteria
- Design, conduct, and document a nonclinical safety study that meets the standards of Good Laboratory Practice
- Evaluate and revise, if necessary, the design, conduct, monitoring, analysis and reporting of a clinical trial to ensure that it meets the standards of Good Clinical Practice
- Collect, organize, and analyze data that are needed to support official reports to the FDA as needed to demonstrate compliance with CFR standards
- Prepare and support reports to the FDA at a professional level necessary to respond to inquiries about various products and processes

Required Courses	(27 credits)
PCM 550 Technical Writing for Regulatory Affairs	3
QRA 500 Food Drug Cosmetic Act: CFR 21	3

QRA 501 Drug Development: Discovery to Approval	3
QRA 502 Good X Practices in Regulated Industries	3
QRA 510 Quality Audit	3
QRA 550 Statistical Analysis for Biotechnology	3
QRA 600 Bioethics for Pharmaceutical, Biologic and Medical Device Industries	3
QRA 601 Global Regulatory Affairs	3
QRA 650 Internship OR QRA 651 Capstone Project	3

Technical Electives	(6-9 credits)
PCM 605 Science Communication	2
BUS 550 Business of Biotechnology	2
BUS 651 Food Law and Regulation of Dietary Supplements/Functional Food	3
QRA 504 Good Clinical Practices	2
QRA 520 Microbial Concepts in Drug Manufacturing	2
QRA 521 INDA/NDA Submissions	2
QRA 522 Generic Drugs and the Regulation of OTC (nonprescription)	3
QRA 523 Packaging and Labeling	2
QRA 620 Medical Devices Regulatory Affairs	3
QRA 621 Cosmetics Regulatory Affairs	2

Degree Type: MS
Total Required Credits: 33 - 36

Notes: To be considered for admissions to this program students must have a minimum undergraduate GPA of 2.75 and have successfully completed the following courses: Biological Principles I & II Chemistry Principles I & II Statistics Organic Chemistry (minimum of one semester) Biochemistry Microbiology Prior experience will be taken into consideration

Aeronautical Science - Professional Pilot

Bachelor of Science Degree

Farmingdale State College's Department of Aviation offers the premier collegiate aviation program on Long Island, and in the region. The professional pilot program is currently accredited by the Aviation Accreditation Board International through February, 2028. The degree program provides training for entry-level pilot positions within the air transportation industry. Opportunities also exist in Federal/State Government, Corporate/ Business Aviation sectors and the United States Military.

A grade of "C" or better is required in all AVN courses (including electives) for graduation from the Professional Pilot Program. Students who are unable to obtain a minimum grade of "C" after the second attempt in any AVN class must obtain permission from the Chairperson of the department to remain in the program. This will apply for each course that needs to be retaken for the third time.

Flight training students must maintain a cumulative GPA of 2.0 and must be in Good Academic standing at the completion of each semester or they may be removed from their flight training schedule.

Please refer to the Safety and Technical Standards in the front section of the College catalog.

Program Educational Goals:

Graduates will possess the necessary knowledge, skills and attitudes to competently and ethically function as professional pilots in the aviation industry.

Our goal is to:

- Be a premier collegiate aviation program providing access to a high-quality, affordable education leveraging our location in complex airspace and all-weather conditions.
- Produce graduates that possess the necessary knowledge, skills and attitudes to competently and ethically function as professional pilots in all segments of aviation.
- Provide a flight training environment that develops the skills needed to build and promote a culture of safety.
- Maintain a low student-to-faculty ratio for a diverse student body.

The Pro-Pilot Program prepares the student with the following Certificates and Ratings:

- Private Pilot Certificate
- Instrument Rating
- Commercial Pilot Certificate
- Certified Flight Instructor (CFI) Certificate or Multi Engine Rating

In addition, the student will have the option to complete the following Certificates and Ratings:

- Multi Engine Instructor
- Airline Transport Pilot Certificate
- Certified Flight Instructor Instrument (CFII) Certificate

Students pursuing flight training in their program must hold a 1st, 2nd, or 3rd class FAA Medical Certificate prior to starting flight training. The Department of Aviation strongly recommends students obtain a First Class Medical prior to enrolling in the Professional-Pilot Program. A listing of FAA medical examiners can be obtained on the Federal Aviation Administration website at https://designee.faa.gov/designeeLocator.

Students may elect to fly during the summer.

Flight Training Costs: Flight training fees and related equipment and publications are in addition to college tuition and fees. Flight fees must be paid each semester regardless of scheduled flight time.

- Student Achievement Data
- NYS Mandatory Licensure Disclosure Statement

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
ECO 156 Principles of Economics (Macro) (GE)	3
ECO 157 Principles of Economics (Micro) (GE)	3
Oral Communication - 200 level or higher (GE)	3

US History and Civic Engagement/ World History and Global Awareness (GE)	3
MTH 129 Precalculus (GE)	4
MTH 130 Calculus I with Applications	4
World Languages (GE)	3
Humanities (GE)	3
The Arts (GE)	3
PHY 135 College Physics I (GE)	4
PHY 136 College Physics II	4
PSY 101 Intro to Psychology	3
PSY 331 Industrial/Organizational Psychology	3
Liberal Arts & Sciences Electives	12

Required: Aeronautical Science - Lecture	**(55-57 credits)**
AVN 101 Aviation Industry: A History Perspective	3
AVN 104 Private Pilot Ground	3
AVN 201 Safety Ethics	3
AVN 202 Aviation Meteorology	3
AVN 208 Instrument Pilot Ground	3
AVN 211 Commercial Pilot Ground	3
AVN 300 Government in Aviation	3
AVN 309 Certified Flight Instructor-Ground	3
AVN 320 Air Carrier Flight Operations	3
AVN 321 Physiology of Flight	3
AVN 322 Advanced Aircraft Systems	3
AVN 325 Safety of Flight	3
AVN 400 Aviation Law	3
AVN 421 Gas Turbine Engines	3
AVN 422 Aerodynamics and Aircraft Performance	3
AVN 423 Crew Resource Management	3
AVN 424 Advanced Avionics and Cockpit Automation	3
AVN 447 Capstone Professional Pilot Seminar	3
AVN Aviation Electives* (RATP students see advisor for approved course listing)	1-3

Required: Aeronautical Science - Flight Training	**(5 credits)**
AVN 105 Private Pilot – Flight to Solo	1
AVN 106 Private Pilot – Flight to Certificate	1
AVN 209 Instrument Pilot – Flight	1
AVN 212 Commercial Pilot – Flight	1
AVN 310 Certified Flight Instructor or AVN 410 Commercial Multi Engine Pilot Rating	1

*FYE 101 First Year Experience is required for all first time full time students.

Degree Type: BS
Total Required Credits: 121-124

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes: 1. Students entering the program with a Private Pilot's certificate must enroll in AVN 112 Private Pilot Proficiency. Students with any flight experience may also be required to enroll in AVN 112 at the discretion of the Chief Flight Instructor. Students must complete all required flight certificates and ratings above the Private Pilot Certificate at the Farmingdale State College (FSC) Flight Center in order to graduate with a FSC Professional Pilot Degree. 2. Flight Courses must be completed within a year from the date a student registers. Within this time frame a student must either 1) Successfully complete the course and be issued a grade, OR 2) Withdraw from the course, due to the following extenuating circumstances: Active Military Obligations, Medical conditions requiring removal from active flight status for a duration of 60 consecutive days or more. If neither of the above occurs, a failing grade will be assigned. 3. All ground courses (AVN 104, 208, 211, 309) require successful completion of an FAA administered exam at the end of the course. The FAA exam can only be taken after receipt of a written endorsement from the course instructor. This instructor endorsement is given to those students who demonstrate sufficient understanding of the subject matter by achieving an average of 80% or better for all of the course exams during the semester. Two consecutive failures of the FAA knowledge examination will result in removal from the Professional Pilot program. Students who fail a ground course will be removed from the Professional Pilot program and from flight training under Part 141 and cannot be endorsed by the College for reduced aeronautical experience under the FAA Letter of Authority (LOA) to Farmingdale State College. 4. Students seeking the R-ATP MUST take a recommended course approved on our current LOA.#Please see an academic advisor for the most recent approved course listing. 5. Failure of three consecutive stage checks will also result in removal from the Professional Pilot program.

Applied Economics

Bachelor of Science Degree

The Bachelor of Science program in Applied Economics is a comprehensive course of study that prepares students for careers in business, financial institutions, national, state, and local government, public and private research organizations and nonprofit organizations. Consistent with the mission of the College, the program trains students to be real-life problem solvers so that upon graduation they are ready to be employed in entry and junior-level positions in business and industry, the public sector, and non-profit sector.

Graduates will have the skills and abilities to meet the diverse needs of regional, national, and international employers in both the private and public sectors, working in occupations such as entry-level economist, quantitative analyst, business analyst, financial analyst, regional planner, manager, and research analyst. The program exposes students to a broad spectrum of economic concepts and applications, providing them with a strong background from which to pursue graduate study in economics and the social sciences, business and finance, law, public administration, journalism, and education.

Students must complete 60 hours in the liberal arts (inclusive of the general education core). In their first two years of the program, students will complete their general education requirements including mathematics, the two introductory courses in economics, and begin to take courses in the economics core.

The program culminates with a capstone course sequence of Economics Research and Reporting followed by Applied Economic Analysis/Senior Project. In the first course, students receive extensive instruction in the methods and techniques of economic research and report writing, including data and statistical analysis, and the generation and presentation of reports for the general public. Students, in Applied Economic Analysis/Senior Project are asked to undertake, complete, and present the results of an applied research project.

Typical Employment Opportunities:

- Market Research Analysts
- Quantitative Analysts for National, State, Local Governments
- Financial Analysts for Banks and Other Financial Institutions
- Budget Analysts
- Insurance Agent
- Data Analysts

Applied Economics (BS) Program Outcomes:

- Graduates will be able to understand basic economics principles, important economic issues, and major economic institutions.
- Graduates will be able to comprehend economic concepts and analytical techniques and apply them to a wide variety of economic issues and problems of the U.S. and world economies.
- Graduates will be trained to read and understand economic literature.
- Graduates will have the opportunity to compile and analyze complex economics data to address real-life economics issues.
- Graduates will be trained to write economics reports and present economic analysis in comprehendible terms.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(36 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Communication- Oral (GE)	3
Humanities (GE)	3
The Arts (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	6
World Languages (GE)	3
ECO 156 Principles of Economics - Macro (GE)	3
ECO 157 Principles of Economics - Micro (GE)	3
Natural Sciences and Scientific Reasoning (GE)	3
MTH 110 Statistics (GE)	3
Additional Required Courses	**(10 credits)**
MTH 129 Precalculus or MTH 117 Precalculus with Applications	4
Social Sciences Electives (ANT, POL, PSY, SOC)	6
Required: Economics	**(33 credits)**
ECO 250 Quantitative Analysis for Economics	3
ECO 260 Intermediate Microeconomics OR ECO 262 Managerial Economics	3
ECO 270 Intermediate Macroeconomics OR ECO 255 Money and Banking	3
ECO 380 Econometrics	3
ECO 490W Economic Research and Reporting	3
ECO 491 Applied Economic Analysis /Senior Project	3
Upper Level Economics Electives (300 level and above)	9
Upper Level Economics Electives (400 level)	6
Additional Electives	**(41 credits)**
Additional free electives	41
Total Credits:	**120-121**

*FYE 101 First Year Experience is required for all first time full time students

The following courses must be taken in residence at Farmingdale State College, and cannot be satisfied by Prior Learning Assessment:

ECO 490W: Economic Research and Reporting
ECO 491: Applied Economic Analysis

Degree Type: BS
Total Required Credits: 120-121

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

1. Students must take at least two 400 level Economics electives 2. Students must receive an overall GPA of 2.0 or better in the major

Applied Gerontology

Bachelor of Science Degree

The Bachelor of Science in Applied Gerontology is offered in the Theresa Santmann School of Health Sciences at Farmingdale State College.

The field of gerontology is expanding as the number of elders in America continues to increase, quickly outpacing other segments of the population.

By 2030 the older population will be more than twice their number from 2000. With over 13% of Americans currently over the age of 65 and projected to be 19% in 2030, our society will be facing crucial issues about aging which will impact the lives of most Americans.

The Applied Gerontology program aims to improve the quality of life of the aged. Central issues to the study of aging are individual, social, and institutional-based. The multidisciplinary course work follows these issues and provides proficiency in all aspects of working with, and administering to, an aging population.

This bachelor's program is designed to prepare students for entry-level occupational positions in the growing field of aging as well as providing skills and knowledge necessary for graduate and professional school entrance.

All Applied Gerontology students will complete a 4-credit hour internship during their academic work. Students have the opportunity to work in area agencies on aging, private, state, and federal aging, care management organizations, advocacy organizations and non-profits serving older adults and their families.

The structure of the program centers on the traditional 8-semester format with additional options to incorporate approved transfer courses, and full and part-time options. Adult learners and change of career applicants are encouraged to apply and accommodated multiple online/hybrid class opportunities.

- Assisted Living Administrations
- Consultant/Advocate
- Estate Preservation
- Federal/State/Local Gov. Agencies
- Geriatric Care Managers
- Health Educators
- Health Insurance Companies
- Home Health Care Administration
- Hospice Facility Administration
- Hotel Facilities Administration
- Long-term Care Administrator
- Rehabilitation Facilities
- Research settings
- Residential Care Centers
- Skilled Nursing Administration

Applied Gerontology (BS) Program Objectives:

- Graduates will demonstrate an appreciation of fundamental interdisciplinary evidence-based awareness of geriatric care. They will apply personal and social responsibility to ethical behavior in all settings dealing with the elderly and the aging process.
- Graduates will employ effective oral and written communication skills needed in a global information society.
- Graduates will evaluate, interpret, and analyze current issues in geriatric science/ administration. They will extrapolate theoretically effective answers to solve problems involving the elderly.
- Graduates will demonstrate the knowledge base skills needed to interpret analyze and evaluate the gerontology field and to prepare for further professional and graduate education.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(64 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
The Arts (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
World Languages I (GE)	3
World Languages II (GE)	3
Oral Communication (GE)	3
BIO 123 Human Body in Health and Disease (GE)	4
HPW 245 Ethics in Health Professions (GE) **OR** PHI 205 Ethics (GE)	3
HUM 332 Intercultural Communications (*D)	3
MLG 304 French Culture and Civilization **OR** MLG 305 Hispanic and Latin American Culture and Civilization **OR** MLG 306 Italian Culture and Civilization	3
MTH 110 Statistics (GE)	3
NTR 110 Introduction to Nutrition Science	3
PSY 101 Introduction to Psychology (GE)	3
PSY 315 Abnormal Psychology	3
SOC 122 Introduction to Sociology (GE)	3
SOC 225 Sociology of the Family	3
SOC 228 Society and Health	3
Liberal Arts Electives	9

Required: Lower Division	(6 credits)
BUS 109 Management Theory and Practice	3
GRO 100 Introduction to Gerontology	3

Required: Upper Division	(51-52 credits)
GRO 300 Biology of Aging **OR** NTR 325 Nutrition Through Lifecycle	3
GRO 310 Nutrition and Aging	3
GRO 320 Caregiving	3
GRO 330 Public Policy and Aging **OR** HPW 330 Concepts in Public Health	3
GRO 340 Gender and Aging	3
GRO 350 Healthcare Financial Management	3
GRO 410 Health Care Insurance	3
GRO 420 Long-Term Care Administration	3
GRO 430 Communication and Aging **OR** SPE 330 Professional and Technical Speech **OR** PCM 320 Communication in Business **OR** PCM 333 Organizational Communication	3

GRO 440 Cultural Diversity and Aging **OR** HPW 470 Healthy America	3
GRO 450 Healthcare Law	3
GRO 460 Internship in Gerontology **OR** HPW 450 Health Wellness Internship	3-4
Technical Electives	9
Upper Division Electives (300/400 level)	6

*FYE 101 First Year Experience is required by all first time full time students

Degree Type: BS
Total Required Credits: 121-123

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

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Applied Mathematics

Bachelor of Science Degree

The Applied Mathematics Bachelor of Science program provides a solid background in mathematics and its applications within a highly supportive and stimulating learning environment. Mathematics is the language of Science and Technology. Thus the Applied Mathematics program is at the very heart of the mission of Farmingdale State College. Students benefit from small class size, personal attention, and a network of social and academic opportunities including the Center for Applied Mathematical Sciences, the Mathematics Learning Center, and the Undergraduate Teaching Assistant program. Students will acquire strong quantitative and analytic skills, incorporating the use of powerful state-of-the art computational technology in advanced problem solving and research projects.

All students will complete a major project in our Seminar in Applied Mathematics which will involve collaborative work. Students can combine the Bachelor of Sciences in Applied Mathematics (Major) with a Minor in another field, or even obtain a Dual Major in mathematics and a related field. These minors and dual majors enable students to pursue inter-disciplinary interests which enhance future employment opportunities. Students can also enroll in one or more of the following microcredentials while satisfying the requirements for the major or minor and/or advancing their career.

- Computational Mathematics
- Data Analytics
- Financial Mathematics

Applied Mathematics graduates possess the skills to enter a wide variety of excellent careers. An applied mathematics degree provides the background for jobs in business, telecommunications, finance, actuarial science, operations research, transportation, and education. Appropriate elective courses in areas such as computer science, engineering technology, economics, or natural sciences permit students to apply their mathematical knowledge to these fields, opening employment opportunities in additional careers, including pharmaceutical research, information services, and quality control. Applied Mathematics graduates are also well prepared to continue their studies at the graduate level in various fields of applied mathematics, finance, applied sciences, or mathematics education.

Typical Employment Opportunities

- Financial Analyst
- Economical Analyst
- Marketing Researcher
- Actuarial Assistant
- Statistician
- Bio Statistician
- Environmental Mathematician
- Insurance Manager
- Secondary Education Teacher
- Information Consultant
- Imaging Scientist
- Quality Control Manager

Applied Mathematics (BS) Program Outcomes:

- Graduates will know the methods and techniques of applied mathematics and will understand the underlying theoretical foundations
- Graduates will have the knowledge and skills needed to be productive problem solvers and critical thinkers
- Graduates will possess both depth and breadth in the mathematical sciences
- Graduates will possess important contextual skills including computer skills, communication skills, and the ability to collaborate with others on mathematical projects

College Requirement	**(1 credit)**
FYE 101 First Year Experience*	1

Liberal Arts and Sciences Courses	**(27 credits)**
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Humanities (GE)	3
The Arts (GE)	3
World History and Global Awareness OR US History and Civic Engagement (GE)	3
World Languages (GE)	3
Social Sciences (GE)	3
Natural Sciences and Scientific Reasoning (GE)	3
Oral Communication (GE)	3
Mathematics and Computer Science Courses	**(56 credits)**
BCS 109 Introduction to Programming OR CSC 111 Computer Programming I	3
MTH 150 Calculus I (GE)	4
MTH 151 Calculus II (GE)	4
MTH 245 Linear Algebra	3
MTH 246 Introduction to Financial Mathematics	3
MTH 252 Calculus III	4
MTH 253 Differential Equations	4

MTH 270 Introduction to Mathematical Computing	3
MTH 290 Methods of Proof in Advanced Mathematics	3
MTH 326 Mathematical Modeling in Applied Sciences (AL)	3
MTH 354 Principles of Real Analysis	4
MTH 360 Applied Probability and Statistics	3
MTH 405 Seminar in Applied Mathematics	3
Math Upper Division Electives	12
Electives	**(39 credits)**
Math Related Electives	12
General Electives(1)	6
Upper Division Electives[(2)]	21
Program Total Credits	122-123

*FYE 101 First Year Experience is required for all first time full time students

The following courses must be taken in residence at Farmingdale State College:
MTH 326 Mathematical Modeling in Applied Sciences
MTH 346 Quantitative Finance
MTH 354 Principles of Real Analysis
MTH 370 Numerical Methods
MTH 380 Experimental Design
MTH 405 Seminar in Applied Mathematics
MTH 420 Statistical Data Mining
MTH 446 Financial Engineering
MTH 470 Problem Solving Seminar

Degree Type: BS
Total Required Credits: 121-122

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Math Upper Division Electives

- MTH 315W History of Mathematics (Writing Intensive)
- MTH 320 Geometric Structures
- MTH 325 Mathematical Modeling in the Biological Sciences
- MTH 330 Applied Abstract Algebra
- MTH 331 Introduction to Topology
- MTH 341 Probability
- MTH 342 Statistical Inference
- MTH 346: Quantitative Finance
- MTH 355 Principles of Complex Analysis
- MTH 356 Integrated Topics in Math and Physics
- MTH 365 Vector Calculus
- MTH 370 Numerical Methods
- MTH 380: Experimental Design
- MTH 385 Applied Partial Differential Equations
- MTH 390 Methods in Operations Research
- MTH 420: Statistical Data Mining
- MTH 445 Linear Algebra II
- MTH 446 Financial Engineering
- MTH 460 Applied Probability and Statistics II
- MTH 470 Problem Solving Seminar
- MTH 490 Topics in Applied Mathematics

Mathematics Related Electives

- Any AET, ARC, CON, EET, IND, or MET course (Pasternack School of Engineering Technology)
- Any PHY course (Physics and Physical Science)
- Any CHM course (Chemistry)
- Any BIO course (Biology)
- Any BCS course (Computer Systems), or CMP, CSC course (Computer Science)
- Any BUS (Business) course listed below:

BUS 101 Accounting I
BUS 102 Accounting II
BUS 220 Financial Information Systems
BUS 258 Production Management
BUS 271 Intermediate Accounting I
BUS 272 Intermediate Accounting II
BUS 273 Cost Accounting
BUS 291 Investments
BUS 300 Operations Management
BUS 306 Project & Contract Management
BUS 307 Corporate Finance
BUS 310 Principles of Taxation
BUS 312 Logistics & Supply Chain Management
BUS 327 Risk Management & Insurance
BUS 330 Cost Management Systems
BUS 340 Advanced Business Statistics
BUS 400 Quality Techniques
BUS 401 Quality Management
BUS 404 Financial Markets & Institutions
BUS 409 Strategic Management
BUS 411 Financial Statement Analysis
BUS 421 Advanced Topics in Corporate Finance
BUS 470 Advanced Accounting
BUS 471 Auditing

- Any ECO, PSY & SOC (Social and Behavioral Sciences) course listed below:

ECO 156 Principles of Eco (Macroeconomics)
ECO 157 Principles of Eco (Microeconomics)
ECO 250 Quantitative Analysis for Economics
ECO 255 Money and Banking
ECO 260 Intermediate Microeconomics
ECO 262 Managerial Economics
ECO 270 Intermediate Macroeconomics
ECO 321 Engineering Economics
ECO 340 International Trade
ECO 341 International Finance
ECO 342 Financial Economics
ECO 380 Econometrics
ECO 401 Industrial Organization
ECO 410 Public Finance
ECO 412 Cost-Benefit Analysis
ECO 435 Environmental Economics & Policy
ECO 480 Forecasting
PSY 311 Organizational Behavior
PSY 324 Psych Measurement and Assessment
PSY 330 Organizational Training and Development
PSY 331 Industrial/Organizational Psychology
PSY 348 Statistics for Psychology
PSY 360 Research Methods
PSY 414 Applied Personnel Psychology

SOC 122 Introductory Sociology

1. **General Electives:** Any SUBJ 100 or higher level (except MTH 322) AND no more than 3 credits in PED. If the DEIS requirement is not satisfied through dual designation in another GER course, one of the approved DEIS courses must be selected as one of the two General Electives.
2. **Upper Division Electives:** Any SUBJ 300 or higher level (except MTH 322).

Applied Physics

Bachelor of Science Degree

The applied physics B.S. program prepares graduates for a wide range of careers in emerging science, technology, and engineering fields as well as entry into graduate and professional programs in applied physics, instrumentation, material science, and engineering fields. The program is intended to be completed in four years, and the content of the program is fully compatible with the SUNY transfer path for physics, allowing for seamless transfer between SUNY institutions. First-time full-time students will need to complete 24 credits at FSC before enrolling in the program.

An applied physics major differs from a standard physics major as it takes general concepts of physics, a broad foundational field, and provides opportunity for students to apply them in practical situations relevant to careers in emerging high-tech industries. The curriculum builds on a strong foundation in general physics and a rigorous mathematical preparation, and takes students through a progression of highly applied advanced courses such as Materials Thermodynamics, Photonics, and Quantum Optics. These courses are designed to provide students with marketable skills needed to launch a career in the technical R&D workforce where hands-on experience is key. Furthermore, students have the unique opportunity to apply the concepts gained from such courses through their enrollment in a three-semester research capstone experience culminating in the Applied Physics Thesis course, by which they work alongside faculty to perform cutting edge physics and applied physics undergraduate research.

Applied Physics (BS) Program Outcomes:
Upon completion of the program, applied physics graduates will be able to:

- Demonstrate the application of physics concepts across practical fields in multiple ways including mathematically, conceptually, verbally, pictorially, computationally by simulation, and experimentally.
- Exercise critical thinking in applying physics concepts to modern technology and to the solutions of complex technical or quantitative problems faced by industry and society. Emphasis will be placed on our relationship with our environment.
- Organize and communicate impactful ideas for a wide range of technical, engineering, and general audiences. Intrinsic to this goal, graduates will be able to work independently and collaboratively in diverse, interdisciplinary teams as a member or leader in pursuing a common goal.
- Engage in research and development activities, including organizing and applying course-based knowledge and guidance from research mentors to solve applied problems of broad practical interest in technically and industrially relevant fields.

Typical Employment Opportunities and Graduate/Professional School Options
Examples of career paths and graduate/professional school opportunities for which this program can provide preparation are presented below:

Materials Science and Engineering
(characterization, testing, and development of advanced materials including semiconductors, thin films, nanomaterials, and functional materials for electronics, energy, and manufacturing applications): job titles include Materials Engineer, Failure Analysis Engineer, Quality Engineer, R&D Scientist.

Photonics and Optical Engineering
(design, development, and optimization of laser systems, fiber optic communications, imaging systems, and optical sensors for applications in telecommunications, medical devices, defense, and manufacturing): job titles include Optical Engineer, Laser Systems Engineer, Photonics Technician, Optical Design Engineer, Test Engineer.

Quantum Technology and Computing
(development of quantum computers, quantum sensors, quantum communication systems, and related hardware for emerging quantum information technology industries): job titles include Quantum Applications Engineer, Quantum Hardware Engineer, Quantum Research Scientist, Cryogenic Systems Engineer, Quantum Algorithm Developer.

Instrumentation and Sensors
(design, testing, and integration of measurement systems, sensors, detectors, and precision instrumentation for scientific research, medical diagnostics, environmental monitoring, and industrial quality control): job titles include Instrumentation Engineer, Test Engineer, Metrology Engineer, Sensor Systems Engineer, Applications Engineer, Field Service Engineer.

Computational Physics and Modeling
(development and application of computational methods, simulations, and numerical models for physics-based problems in engineering, finance, data science, and scientific research): job titles include Computational Scientist, Modeling and Simulation Engineer, Data Scientist, Scientific Software Developer, Quantitative Analyst, Research Software Engineer.

Physics Graduate Programs and Research Careers
For students seeking entry into graduate programs in physics, applied physics, engineering physics, astrophysics, space physics, or related fields leading to research careers in academia, national laboratories, or industrial R&D.

Engineering Graduate Programs
For students seeking entry into graduate programs in engineering disciplines (electrical, mechanical, optical, materials, aerospace, or computer engineering).

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(43 credits)
EGL 101 Composition 1: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Communications - Oral (GE)	3
The Arts (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness (GE)	3
World Language Level I (GE)	3
Social Sciences (GE)	3
CHM 152 General Chemistry	4
MTH 150 Calculus I (GE)	4
MTH 151 Calculus II	4
MTH 252 Calculus III	4
MTH 245 Linear Algebra	3

Required Courses	(52 credits)
BCS 109 Introduction to Programming	3
PHY 107 Physics Seminar	1
PHY 143 General Physics I (GE)	4
PHY 144 General Physics II (GE)	4
PHY 255 Oscillatory Motion and Waves	3
PHY 310 Analytical and Numerical Mechanics	3
PHY 312 Materials Thermodynamics	3
PHY 323 Electromagnetic Theory	3

PHY 333 Modern Physics	3
PHY 334L Modern Physics Laboratory	1
PHY 350 Quantum Mechanics	3
PHY 356 Integrated Topics in Math and Physics	3
PHY 423 Photonics	3
PHY 450 Quantum Optics	3
PHY 480 Physics Research I	3
PHY 481 Physics Research II	3
PHY 482 Physics Thesis	3
PHY 499 Special Topics in Applied Physics	3
Free Electives*	(25 credits)

Degree Type: BS
Total Required Credits: 120-121

*A minimum of 9 free elective credits must be taken at the 300-level or above

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Applied Psychology

Bachelor of Science Degree

The Applied Psychology program leads to a Bachelor of Science degree with a concentration in Industrial/Organizational Psychology. The program focuses on developing the student's ability to use the core knowledge and analytical skills of the discipline in order to address practical problems important to local business and industry. This program prepares students to be real-life problem solvers in the emerging field of Applied Psychology. Students will learn the foundations of Industrial/Organizational Psychology including personnel management, organizational behavior, and organizational development. The program's career objectives are to prepare students for meaningful and rewarding entry-level positions in business and human resource management. This "hands on" program will develop skills that will enable its graduates to help businesses efficiently recruit, develop, and organize their human resources. Commensurate with the expectations of a BS in Applied Psychology and the current requirements of entry-level jobs in the area of Industrial/Organizational Psychology, students will successfully complete an applied research project or an internship. Furthermore, if the program graduates' educational aspirations include advanced professional training, they will have had the theoretical knowledge, analytical skills, and exposure to effective writing necessary for successful entry and performance in the increasingly competitive and specialized graduate programs across many fields of psychology.

Applied Psychology (BS) Program Outcomes:

- Graduates will have the knowledge and skill to successfully conduct and report research in Applied Psychology.
- Graduates will demonstrate technical competence with regard to:
  - general psychological concepts and theories.
  - the content and technologies of Applied Psychology.
  - Graduates will possess the competencies required to perform entry level positions in business and human resource management.

In addition to curricular options, the College has a vibrant Psychology Club and an honor society (Psi Chi).

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	**(63-64 credits)**
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Humanities (GE)	3
SPE 130 Public Speaking OR	
SPE 202 Interpersonal Communications (GE)	3
The Arts (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
MTH 116 College Algebra (GE)	4
MTH 110 Statistics (GE)	3
World Languages - Level II (GE)	3
PSY 101 Introduction to Psychology (GE)	3
SOC 122 Introduction to Sociology	3
EGL 310 Technical Writing	3
BCS 102 Computer Concepts and Applications	3
Social Science (non-Psychology) electives	6
Math/Science elective by advisement	3-4
Biology with lab (GE)	4
Biology elective with lab	4
Liberal Arts and Sciences electives	6
Psychology Core	**(32 credits)**
PSY 234 Social Psychology	3
PSY 364 Introduction to Biopsychology	3
PSY 348 Statistics for Psychology	4
PSY 360 Research Methods in Psychology	4
PSY 372 Cognitive Psychology	3

Any 200 level or higher Psychology (PSY) course by advisement OR RAM 303 by advisement	15
Industrial/Organizational Psychology Concentration	**(15 credits)**
PSY 311W Organizational Behavior	3
PSY 331 Industrial/Organizational Psychology	3
PSY 414 Applied Personnel Psychology	3
PSY 442 Applied Psychology Senior Project: Professional Development	3
PSY 443 Applied Psychology Senior Project II: Career Planning	3
Free Electives	**(12 credits)**
Total Credits:	**122-124**

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 122-124

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Information: Technical Electives PSY 221 Observing & Recording Development of the Young Child (4 credits) PSY 222 Early Childhood Learning Environments (4 Credits) PSY 223 The Childcare Professional and Family Dynamics (4 Credits) PSY 220 Child Development Birth - 5 years (4 Credits) PSY 322 Understanding Neurodiversity: Autism Spectrum Disorder (3 Credits) PSY 323 Professional & Ethical Issues for Direct Support Professionals (3 credits) Notes: The Bachelor's Degree in Applied Psychology does not lead to licensure. All licensure in Psychology in New York State requires an advanced (Master's or Doctoral) degree.

Architectural Engineering Technology

Bachelor of Science Degree

The Architectural Engineering Technology (ARC) program synthesizes the aesthetic, technical and functional elements of building design and construction. The academic thrust of the program is applied technology. The students in this program will be educated in the process of building design from concept to completion.

The purpose of the Architectural Engineering Technology program is to prepare students for careers in architectural, structural, and mechanical aspects of the design and construction of buildings. The students will be educated in the process of carrying design projects from schematics through construction. In addition to preparing students for meaningful and rewarding careers at the Bachelor's level, the program will also prepare students for successful entry in the professional and non-professional graduate programs in architecture and other areas.

Architectural Engineering Technology (BS) Program Outcomes:

- Find rewarding jobs in architecture or related fields
- Pursue further education or professional certifications
- Take on leadership roles in their field
- Get involved in professional organizations while engaging in lifelong learning to stay current with evolving technologies

The Bachelor of Science in Architectural Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, under the General Criteria and the Program Criteria for Architectural Engineering Technology and Similarly Named Programs.

Eligibility for Registered Architect licensure is based on a combination of education and experience. Graduates of this program are eligible to sit for the Architect Registration Examination (ARE) in New York State after graduation and professional work experience under the direct supervision of architects, engineers, or public agencies as defined by the requirements for licensure. Details are available here: https://www.op.nysed.gov/architecture

Potential Employment/Employment Demand

Employment in the architectural field is strongly tied to the level of local construction, particularly new structures such as office buildings, shopping centers, schools and health care facilities. As the stock of buildings age, demand for remodeling and repair work should also grow. The needed renovations and rehabilitation of old buildings is expected to provide many job opportunities according to the Occupational Outlook Handbook. Also, according to the Occupational Outlook Handbook, employment in this field will grow as fast as the average for all occupations during this period.

Student Club - Architecture and Construction Technology (ACT) Club

Student Learning Outcomes: Architectural Engineering Technology

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
5. An ability to function effectively as a member as well as a leader on technical teams.

Students applying to this program must review the technical standards for this program found in the Admissions Information section of the College Catalog.

ABET Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing (GE)	3
MTH 129 Precalculus (GE)	4
MTH 130 Calculus with Applications (GE)	4
MTH 236 Calculus II with Applications	3

Liberal Arts Elective	12
PHY 135 College Physics I (GE)	4
PHY 136 College Physics II	4
Liberal Arts Elective (upper level)	3
ECO 321 Engineering Economics	3
The Arts (GE)	3
Social Sciences (GE)	3
Humanities (GE)	3
US History and Civic Engagement World History and Global Awareness (GE)	3
World Languages (GE)	3

Required: Architectural Engineering Technology	**(64 credits)**
CON 106 Statics	3
ARC 111 Graphics I	2
ARC 121 Graphics II	2
ARC 123 Graphics III	1
CON 161 Materials & Methods of Construction I	3
CON 162 Materials & Methods of Construction II	3
CON 207 Elements of Strength of Materials	3
ARC 255 Architectural Design I	4
ARC 257 Architectural Design II	4
ARC 263 Mechanical, Electrical, Plumbing & Energy Systems in Buildings	3
CON 302 Soils, Foundations & Earth Structures	3
ARC 310 Construction Design	4
CON 357 Quantity Surveying and Costing	3
ARC 350W Architectural Theory & Design Factors	3
CON 361 Governmental Building & Environ Codes & Regulations	3
ARC 362 History of Western Architecture	3
ARC 364 Site Design and Construction	3
ARC 376 Architectural Design III	4
CON 409 Structural Design	3
ARC 476 Architectural Design IV	4
ARC 486 Architectural Design V**	4

Total Credits:	125-126

*FYE 101 First Year Experience is required for all first time full time students

**ARC 486 Architectural Design V must be completed in residence at Farmingdale State College

Degree Type: BS
Total Required Credits: 125-126

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

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Artificial Intelligence Management

This program is offered fully online.

The Bachelor of Science in Artificial Intelligence Management is designed to meet both transfer and continuing education needs for students, preparing them for a wide range of careers in the emerging field of AI. This program builds a foundation of both managerial and technical skills by combining business and computer science to understand, develop and manage AI applications. In particular, the program builds technical skills in machine learning and management, enabling the student to apply those skills in areas such as marketing, finance, supply chain, and other business functions. In addition, with courses on ethics and the societal implications of AI, the program reflects perspectives that are both diverse and international. The program is ideal for students with backgrounds in computer science and interested in learning more about the application of AI in business, and for students with backgrounds in business and interested in learning more about the technical aspects of AI.

Typical Employment opportunities:

- Computer Science
- Marketing
- Finance
- General Management
- Supply Chain Management
- Customer Relations
- Global Business
- Production, Supply Chain Management, and Logistics

Career Objectives:

The program is designed to:

- Enable graduates without prior related work experience to obtain entry-level positions in AI Management in a wide range of industry sectors and functions such as healthcare, finance, marketing, transportation, insurance, transport and logistics, and customer service.
- Enable graduates with prior managerial experience to obtain technical skills in programming and machine learning to transition to work in AI management.
- Enable graduates with prior technical experience in AI to gain managerial skills and business knowledge to transition to work in AI management.
- Enable working adults from a wide geographic area to advance their careers in AI Management or change into AI Management careers after graduation.

Program Outcomes:

- Explain AI theories, techniques, and applications in organizations.
- Utilize machine-learning techniques for data analysis and decision making in organizations.
- Design basic AI systems that perceive, act, and learn in a variety of challenging environments, with an understanding of Human-Computer interactions.

- Communicate complex problems and AI solutions to wide audiences in an organization.
- Examine the design and use of AI, with an awareness of theoretical, practical, and social implications, while applying appropriate ethical standards.

Liberal Arts and Sciences	(24 credits)
EGL 102 Composition II: Writing About Literature	3
100 level or higher electives	12
300 level or higher electives	9

Required Courses	(36 credits)
AIM 301 Artificial Intelligence (AI) in Marketing	3
AIM 310 AI in Finance	3
AIM 350 Programming for AI	3
AIM 360 Algorithms for AI	3
AIM 370 Artificial Intelligence and Machine Learning I	3
AIM 410 Analytical Techniques for Decision Making in AI	3
AIM 420 Supply Chain, Operations, and AI	3
AIM 460 Artificial Intelligence and Machine Learning II	3
AIM 490 Capstone Project	3
BUS 440 Visual Analytics	3
STS 380 Ethics, Human Society, and AI	3
STS 420 Emerging Trends in AI	3

Transfer Credits	
General Education	30
Free Electives	30
Total Credits	**60**

Degree Type: BS
Total Required Credits: 120

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, students at Farmingdale State College (FSC) are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses will be developed in accordance with the guiding principles and criteria outlined below. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Artificial Intelligence Management Admission Requirements:

Minimum Required Transfer Credits (60) to include 30 general education credits that meet the SUNY General Education framework as displayed in the College Catalog, including EGL 101 Composition I: College Writing, and MTH 116 College Algebra or the equivalent.

Recommended: An Associate Degree in Business, Computer Science, or a related field with 12 credits of coursework in Business and/or Computer Science; Business Statistics or equivalent; and a transfer GPA of 2.50.

Students who are admitted with fewer than 12 credits of coursework in Business and/or Computer Science may be required to take up to four, 1-credit courses prior to starting the program.

Aviation Administration

Bachelor of Science Degree

The Aviation Administration major is a specialized aviation management program accredited by the Aviation Accreditation Board International (www.aabi.aero) through February, 2023. The program prepares graduates for entry-level managerial positions in the Airport and Air Cargo segments of the air transportation industry, the Airline Industry, the FAA and the General Aviation Industry.

A grade of "C" or better is required in all AVN courses (including electives) for graduation from the Aviation Administration Program. Students who are unable to obtain a minimum grade of "C" after the second attempt in any AVN classes must obtain permission from the Chairperson of the department to remain in the program. This will apply for each course that needs to be retaken for the third time.

Aviation Administration (BS) Program Educational Goals:

Our goal is to:

- Produce graduates that possess the relevant knowledge, skills and attitudes to competently and ethically function as a manager in the aviation industry.
- Provide students access to a high-quality, affordable education in the field of aviation.
- Develop relationships with our extensive local and global industry partners that provide students with applied learning opportunities and experiences.
- Maintain a low student to faculty ratio for a diverse student body

The program prepares students to be marketable in the following areas: Finance and Public Relations, Accounting and Marketing, Aviation Laws and interaction between the aviation industry and government and Management of all aspects of airports.

- Student Achievement Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(60 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Communication- Oral (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
ECO 156 Economics (Macro) (GE)	3
ECO 157 Economics (Micro)	3

PHY 116 Meteorology	3
Natural Sciences and Scientific Reasoning (GE)	4
PSY 101 Introduction to Psychology	3
MTH 110 Statistics (GE)	3
MTH 129 Precalculus (GE)	4
MTH 130 Calculus I with Applications	4
The Arts (GE)	3
World Languages (GE)	3
Humanities (GE)	3
Liberal Arts & Sciences Electives (upper level)	12

Required Support Courses	(18 credits)
BUS 101 Accounting I	3
BUS 102 Accounting II	3
BUS 109 or BUS 111	3
BUS 307 Corporate Finance	3
Free Elective	3
Free Elective (300 level or higher)	3
Required Aviation	**(27 credits)**
AVN 100 General Aeronautics	3
AVN 101 Aviation Industry: A History Perspective	3
AVN 201 Safety Ethics	3
AVN 300W Government in Aviation	3
AVN 326 Aviation Security Management	3
AVN 350 Air Traffic Management	3
AVN 400 Aviation Law	3
AVN 401 Aviation Economics and Marketing	3
AVN 471 Aviation Administration Senior Seminar	3

Concentration: (Choose one)

Air Cargo	(15 credits)
AVN 280 Intro to Air Cargo Operations - Basic	3
AVN 281 Air Cargo Govt & Industry Regulations	3
AVN 380 Air Cargo Sales & Marketing Techniques	3
AVN 381 Air Cargo Mgmt Techniques	3
AVN 480 Air Cargo Operations - Advanced	3
Airport Management	**(15 credits)**
AVN 271 Airport Capacity/Delay/ Airspace	3
AVN 370 Airport Management and Finance	3
AVN 371 Airport Planning	3
AVN 470 Airport Operations	3
AVN Elective	3
Air Traffic Management	**(15 credits)**
AVN 202 Aviation Meteorology	3
AVN 271 Airport Capacity/Delay/ Airspace	3
AVN 325 Safety of Flight	3
AVN 371 Airport Planning	3
AVN Elective (upper-level)	3
Flight Management	**(15 Credits)**
AVN 104 Private Pilot Ground	3
AVN 202 Meteorology	3
AVN 325 Safety of Flight	3
AVN Electives (3 credits must be upper level)	6
Total Credits:	120-121

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 120-121

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Bioscience

Bachelor of Science Degree

The Biology Department offers a baccalaureate in Bioscience designed to produce versatile graduates prepared for a wide range of positions in the rapidly developing bioscience field or for entry into graduate or professional programs in the life and health sciences. This program combines a strong foundation in the biological sciences and supporting subjects (emphasizing both theoretical concepts and hands-on laboratory methods) with sequences of Technical Electives that enable the student to acquire advanced preparation in one or more applications of bioscience. Technical Electives are selected with advisement according to the objectives of the individual student, and can be drawn from higher level Biology

courses or from other academic majors at the College, thus providing the opportunity to gain breadth and depth in a variety of disciplines.

The Biology faculty are committed to supporting student learning in the classroom and laboratory, and to fostering student scholarly activity. Recommended students in Bioscience have the opportunity to gain work experience in an elective credit-bearing internship. This can be through placement into a pharmaceutical, nutraceutical, or cosmetic manufacturing facility, forensic laboratory, genetic testing laboratory, veterinary facility, research laboratory, or other bioscience-related institution off campus, or by invitation into an on-campus credit-bearing research internship under the mentorship of a Biology faculty member.

Typical Employment Opportunities and Graduate/Professional School Options

Examples of career paths and graduate/professional school opportunities for which this program can provide preparation are presented below, with sequences of Technical Electives that are recommended to provide the background necessary to pursue these career or postgraduate career goals:

Bioinformatics

(computer-based mapping and comparison of genomic and other biologically-derived data, with applications such as predicting the function of gene products and developing pharmacogenomic treatments of disease): job titles include Scientific Curator, Gene Analyst, Protein Analyst, Structural Analyst, Molecular Modeler, Biostatistician, Pharmacogenetician. Recommended Technical Electives: Computer Concepts/Problem Solving, Foundations of Computer Programming I & II, UNIX Operating System, Database, Perl Programming

Biopharmaceutical

(pharmaceutical, nutraceutical, and cosmeceutical production, ranging from fermentation and raw material extraction to processing and finishing): job titles include Compounding Supervisor, Process Development Associate, Production Planning Scheduler, Quality Assurance Auditor, Quality Control Analyst, Regulatory Affairs Specialist. Recommended Technical Electives: Management Theory & Practices, Contemporary Business Communications, Occupational Safety, Industrial Hygiene, Biopharmaceutical Regulation, Validation & Regulatory Affairs

Bioscience Laboratory Research & Analysis

(life sciences research support, biotechnology research & development, FDA regulated industry production): job titles include Bioscience Laboratory Associate, Bioscience Laboratory Technician, Food Quality Laboratory Technician, Microbiologist, Development Technician, Quality Control Receiving Inspector. Recommended Technical Electives: Organic Chemistry I & II, Biochemistry, Lab Management & Informatics, Laboratory Research/ Education

Graduate/Professional School Admissions:

for those students specifically seeking entry into graduate programs in the life sciences or into professional programs in the health sciences, a sequence of Technical Electives can be chosen to earn the academic credentials necessary to meet admissions requirements of such programs. Recommended Technical Electives: Calculus I with Applications, College Physics I & II, Organic Chemistry I & II, Biochemistry. (See Pre-Health Professions Advisement on the Farmingdale State College website.)

For incoming freshman, an average of 87 and an 80 or higher on Living Environment/Biology Regents, 75 or higher on Chemistry Regents, and 75 or higher on Algebra II Regents. For transfer students, a GPA of 3.0 and a C or better in College Algebra (or Algebra 2 from high school) and a B- or better in all science courses, which must include at least one college level biology and one college level chemistry or at least two semesters of college level biology.

Note that training and licensure in Molecular Diagnostics (Molecular Pathology) is available through the BS in Medical Laboratory Science rather than through Bioscience.

Bioscience (BS) Program Outcomes:

- Graduates will be knowledgeable in the biological fields relevant to biotechnology, including genetics, cell biology, bioinformatics, molecular biology and microbiology, as well as organismal biology, ecology, or evolution.
- Graduates will meet the prerequisite requirements to enter various health professions and biology related graduate programs.
- Graduates will demonstrate mastery of basic laboratory skills, familiarity with the operation of modern instrumentation and adherence to laboratory safety standards.
- Graduates will be able to apply the scientific method, design controlled experiments, and analyze experimentally derived data.
- Graduates will have the ability to effectively seek out and evaluate scientific information.
- Graduates will be able communicate scientific information effectively by written, graphical, and verbal means.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	35 credits
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
CHM 152 General Chemistry Principles I (GE)	4
CHM 153 General Chemistry Principles II (GE)	4
MTH 110 Statistics (GE)	3
Humanities (GE)	3
The Arts (GE)	3
US History and Civic Engagement/ World History and Global Awareness (GE)	3
World Languages (GE)	3
Social and Behavioral Science (GE)	3
Oral Communication	3

Bioscience Core	36-37 credits
BIO 130 Biological Principles I	4
BIO 131 Biological Principles II	4
BIO 210 Introduction to Bioscience	3
BIO 212 Bioscience Laboratory Practices	2
300-level Ecology or Evolution or Organismal Biology core course. (Chosen from Approved Technical Electives by advisement)	3 - 4
BIO 316 General Microbiology or BIO 318 Medical Microbiology	4
BIO 343 Principles of Genetics	3
BIO 344L Principles of Genetics Lab	1
BIO 345 Introduction to Bioinformatics	3
BIO 348 Cell Biology	3
BIO 349L Cell Biology Lab	1

BIO 441 Molecular Biology	5

Support Courses	11-12 credits
BCS 102 Computer Concepts/ Applications **OR** BCS 160 Computers, Society and Technology	3
CHM 260 Fundamentals of Organic Chemistry **OR** CHM 270 Organic Chemistry	4-5
MTH 117 Precalculus with Applications **OR** MTH 129 Precalculus or higher	4

Technical Electives**	25-35 credits
Free Electives (300-level or higher)	12 credits

*FYE 101 First Year Experience is required for all first time full time students

**Technical Electives must include at least 1 course at the 400-level earning at least 3 credits, and 2-3 courses at the 300-level or above earning a total of at least 7 credits (with all appropriate prerequisites satisfied); the remaining 15-25 credits can be at any level, although additional upper division courses may be selected to fulfill 45 upper division credit SUNY requirement)

All required courses in the Bioscience program are eligible to be satisfied by transfer credits. The courses must be deemed equivalent by the department Chair (refer to the course equivalency chart on the Transfer Services website).

At this time PLA (Prior Learning Assessment) does not satisfy any courses offered by the Biology Department.

Degree Type: BS
Total Required Credits: 120-132

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes: 1. One Writing Intensive course and one Applied Learning course in any of the above courses is required for graduation. 2. Students must complete a minimum of 45 credits of 300- or 400- level courses to graduate. 3. Technical Electives may be chosen from selected courses in the departments of Anthropology (ANT), Biology (BIO), Business (BUS), Chemistry (CHM), Computer Systems (BCS), Horticulture (HOR), Industrial Technology (IND), Mathematics (MTH), Medical Laboratory Science (MLS), Physics (PHY), and Psychology (PSY). Courses which satisfy technical elective requirements are listed in the Bioscience Student Advisement Sheet. 4. To continue in the Bioscience BS degree program, a grade of C- or better must be maintained in every Biology and Chemistry course that serve as prerequisites for other courses in the Bioscience major. Earning a grade of less than C- in two required Biology and/or Chemistry courses will result in suspension from the Bioscience curriculum for at least one year. If a student fails to attend the first three laboratory sessions in a course, they may be disenrolled from the course (both lecture and lab, as applicable). Exceptions to these policies can only be made by the Chair of the Biology Department when extenuating circumstances exist.

Business Analytics

Bachelor of Science Degree

The Bachelor of Science degree in Business Analytics is designed to prepare students for jobs that require data analysis skills, data visualization, and presentation skills that are essential to decision making in organizations.

The explosive growth of technologies and applications that collect data and generate information is changing the business landscape. Current and new technologies and social media provide abundant information (i.e., big data) to businesses and organizations. Consequently, today's challenge is to extract useful information from big data (data mining); to interpret that information (descriptive analytics), to predict the future (predictive analytics), and to make decisions that would help organizations to achieve their goals (prescriptive analytics).

The Business Analytics program will teach students the necessary skills to work with large data sets and perform data mining tasks to enable evidence-based decision making. Graduates from the BS in Business Analytics will have powerful analytical skills combined with a strong business background. Therefore, graduates from the program will succeed in the changing business environment and will have the foundation necessary to pursue advanced degrees in the field as well.

Typical Employment Opportunities

- Management Analyst
- Market Research Analyst
- Sports Statistical Analyst
- Finance Analyst
- Computer Systems Analyst

Business Analytics (BS) Program Outcomes:

- Graduates will demonstrate strong core discipline knowledge in accounting, finance, legal environment of business, management, marketing, and operations management.
- Graduates will evaluate ethics and social responsibility issues.
- Graduates will analyze business situations and offer reasoned, actionable suggestions leading to problem resolution.
- Graduates will demonstrate effective written and verbal communication skills supported by current technology.
- Graduates will evaluate the impact of the political, cultural and legal context surrounding global business operations and their effect on local business operations.
- Graduates will summarize and interpret each step in the analytics process and apply appropriate analytics software and tools (data collection, data mining, descriptive analytics, predictive analytics, and prescriptive analytics).

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
MTH 116 College Algebra (GE)	3
ECO 156 Principles of Economics (Macro) (GE)	3
ECO 157 Principles of Economics (Microeconomics)	3
Humanities(GE)	3
World Languages (GE)	3
Math or Natural Science elective	4
Natural Sciences and Scientific Reasoning(GE)	3
US History and Civic Engagement/	3

World History and Global Awareness (GE)	
The Arts (GE)	3
BUS 141 Contemporary Business Communication (GE)	3
EGL 310 Technical Writing	3
Arts and Science Electives	15
Arts and Science Electives Upper Level	6

Required: Business Analytics	**(48 credits)**
BUS 101 Accounting I	3
BUS 102 Accounting II	3
BUS 109 Management Theories and Practices	3
BUS 131 Marketing	3
BUS 240: Business Statistics OR	
MTH 110 Statistics	3
BUS 307 Corporate Finance	3
BUS 385 Business Data Management	3
BUS 300 Operations Management	3
BUS 340 Advanced Business Statistics OR	
ECO 380 Econometrics	3
BUS 345 Foundations of Business Analytics	3
BUS 409 Strategic Management	3
BUS 440W Visual Analytics	3
BUS 445 Advanced Business Analytics	3
BUS 448 Business Analytics Project	3
Technical Elective	3
Technical Elective (300 level or higher)	3

Free Electives	**(12 credits)**
Free Electives	3
Free Electives (300-level or higher)	9

Total Credits	121-122

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 121-122

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes:

Technical Electives:
BUS 314 Supply Chain Analytics
BUS 319 Marketing Research
MTH 246 Introduction to Financial Mathematics
MTH 346 Continuous Time Finance
BCS 260 Introduction to Database Systems
BCS 425 Business Intelligence and Data Warehousing
BUS 442 Human Resources Analytics

Business Management

Bachelor of Science Degree

The Bachelor of Science in Business Management is designed to prepare students for a wide choice of business and managerial careers. The program provides for a rich exposure to business issues and functions through introductory and core business courses. In addition, the program provides for a significant portion of the degree to be self-defined through elective courses. Through consultation with faculty and program advisors each student is advised with an individualized set of courses designed to best serve the career goals of that student. Students may choose to focus on specific areas of business such as Accounting, Management, Marketing, and International Business or choose from a wide variety of courses in Business Computer Systems and/or Sport Management.

Typical Employment Opportunities

- Marketing
- Management and Leadership
- Entrepreneurship
- Accounting and Finance
- Customer Relations
- Financial Services
- Global Business
- Production, Quality Control, Inventory and Logistics

Business Management (BS) Program Outcomes:

- Graduates will have the necessary skills to understand and perform in different areas of business in the modern world economy.
- Graduates will be effective communicators and possess critical thinking skills necessary to analyze and solve problems.
- Graduates will function well in teams, develop creative problem solving skills and have the ability to use current technologies in management contexts.
- Graduates will have an understanding of social and ethical issues, data analysis skills, financial theories, and a knowledge of the global economic, political, and legal context within which businesses function.
- Graduates will have an appreciation of markets and organizational behavior, organizational systems and processes, and learn to work effectively in a diverse environment.

College Requirement	**(1 credit)**
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	**(61 credits)**
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
The Arts (GE)	3

Communication- Written and Oral (GE)	3
Humanities (GE)	3
EGL 310 Technical Writing	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
MTH 129 Precalculus or MTH 117 Precalculus with Applications (GE)	4
World Languages (GE)	3
ECO 156 Principles of Economics (Macro) (GE)	3
ECO 157 Principles of Economics (Micro) (GE)	3
Natural Sciences and Scientific Reasoning (GE)	3
Math or Natural Science elective	3
Arts and Sciences electives (including 6 credits at 300-level or above)	21

Required: Business	**(39 credits)**
BUS 101 Accounting I	3
BUS 102 Accounting II	3
BUS 109 Management Theories and Practices	3
BUS 131 Marketing Principles	3
BUS 202 Business Law	3
BUS 240 Business Statistics	3
BUS 280 International Business	3
BUS 300 Operations Management	3
BUS 307 Corporate Finance	3
BUS 404 Financial Markets & Institutions	3
BUS 409 Strategic Management	3
BCS 102 Computer Concepts and Applications	3
BCS 300 Management Information Systems	3
Electives:	**(24 credits)**
BUS, SMT and/or IND courses (300 level or higher)	9
AET, BCS, BUS, CON, EET, HOR, IND, MET and/or SMT courses	12
Free Elective	3
Total Credits:	**124-125**

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS

Total Required Credits: 124-125

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Civil Engineering Technology

The Civil Engineering Technology program (CIV), at Farmingdale State College, in alignment with the missions of both the college and the State University of New York, offers a comprehensive and engaging curriculum. This program equips student with the necessary theoretical knowledge and practical skills essential for a career in civil engineering. Students will undertake a variety of courses that cover the foundational principles of engineering as well as key areas specific to civil engineering.

- Structural Engineering
- Transportation Engineering
- Geotechnical Engineering
- Water Resource Engineering

The Bachelor of Science in Civil Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, under the General Criteria and Program Criteria for Civil Engineering Technology and Similarly Named Programs.

In New York State, graduates may sit for the Fundamentals of Engineering (FE) Exam upon graduation and the Professional Engineering (PE) Exam after six years under a professional engineer.

Civil Engineering Technology Program Educational Outcomes:

After completing the program, graduates will:

- Build a rewarding career in civil engineering or a related field
- Pursue continuous education, graduate study, or professional licensure
- Get involved in professional organizations while engaging in lifelong learning to stay current with evolving technologies

Student Learning Outcomes :

Upon completion of the program students will demonstrate:

- an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
- an ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
- an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
- an ability to function effectively as a member as well as a leader on technical teams.

Typical Employment Opportunities:

Civil Engineers
Design Engineers
Project Managers
Consultants
Project Planners
Municipal and Government Agency Engineers

ABET Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(62 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Literature	3
EGL 310 Technical Writing (GE)	3
CHM 152 General Chemistry Principles I (GE)	4
ECO 321 Engineering Economics (GE)	3
MTH 129 Pre-Calculus with Applications (GE)	4
MTH 130 Calculus I OR	
MTH 150 Calculus I (GE)	4
MTH 236 Calculus II with Applications OR	3
MTH 151 Calculus II (GE)	
MTH 390 Methods in Operations Research	3
PHY 135 College Physics I (GE)	4
PHY 136 College Physics II (GE)	4
PHY 333 Modern Physics (GE) OR	
MTH Elective (200 Level or Higher)	3
Liberal Arts & Sciences Electives	6
The Arts (GE)	3
Social Science (GE)	3
World Languages - Level I or higher (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3

Required: Civil Engineering Technology	(61 credits)
ARC 111 Graphics I	2
ARC 121 Graphics II	2
CIV 101 Introduction to Civil Engineering Technology	3
CIV 106 Statics	3
CIV 207 Elements of Strength of Materials	3
CIV 208 Dynamics	3
CIV 302 Soils, Foundations & Earth Structures	3
CIV 303 Hydraulics	3
CIV 350 Numerical Methods in Civil Engineering Technology	3
CIV 402 Civil Engineering Materials	3
CIV 403W Field Practices in Civil Engineering Technology	3
CIV 408 Structures	3
CIV 409 Structural Design	3
CIV 410 Transportation Engineering	3
CIV 411 Water and Wastewater Systems	3
CIV 412 Highway Engineering	3
CIV 414 Reinforced Concrete Design	3
CIV 496 Capstone Project**	3
CON 103 Surveying	3
Technical Elective	3
Technical Elective (300 level or higher)	3
Total Credits	123-124

*FYE 101 First Year Experience is required for all first time full time students

**CIV 496 Capstone Project must be completed in residence at Farmingdale State College

Degree Type: BS
Total Required Credits: 123-124

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes: Technical Electives (300 level or higher) are considered any of the following: CON 361 Government Buildings & Env Codes & Regulations; CON 399 Applied Research Topics; CON 407 Building Commissioning; IND 308 Occupational Safety; IND 309 Security and Fire Protection Systems. Math Elective (200 level) are considered any of the following: MTH 245 Linear Algebra; MTH 250 Introduction to Graph Theory and Combinatorics; MTH 252 Calculus III; MTH 25 Differential Equations; MTH 290 Methods of Proof in Advanced Mathematics; MTH 320 Geometric Structures; MTH 322 Advanced Mathematical Analysis

Computer Engineering Technology

Bachelor of Science Degree

The Bachelor of Science degree program in Computer Engineering Technology is designed to address the ever increasing need for graduates

possessing skills in both computer programming and computer hardware (digital electronics), and in the underlying principles of networking.

The program establishes a sound foundation in applied mathematics and physics including the necessary principles of electrical engineering technology, computer engineering technology, elective choices in the arts, sciences and the humanities. Transfer admission is easily available to students from related degree programs.

Graduates of this program will be well prepared to fill the wide range of engineering technology positions which rely upon an understanding of hardware and software applications of digital, microprocessor, microcontroller, and computer based systems.

This program is accredited by the Engineering Technology Accreditation Commission of ABET

Computer Engineering Technology (BS) Program Educational Objectives:

After completing the program, graduates will:

1. Find rewarding jobs in computer engineering technology or related fields
2. Pursue further education or professional certifications
3. Take on leadership roles in their field
4. Get involved in professional organizations while engaging in lifelong learning to stay current with evolving technologies

Student Learning Outcomes:

Upon completion of the program students will be able to:

1. Apply knowledge, techniques, skills, and modern tools of mathematics, science, engineering, or technology to solve broadly-defined engineering problems appropriate to the discipline
2. Design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline
3. Apply written, oral, and graphical communication in broadly defined technical and nontechnical environments; and an ability to identify and use appropriate technical literature
4. Conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes
5. Function effectively as a member or leader on a technical team

ABET Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing	3
MTH 129 Precalculus (GE)	4
MTH 130 Calculus I with Applications (GE)	4
MTH 236 Calculus II with Applications (GE)	3
MTH 245 Linear Algebra	3
MTH 322 Advanced Mathematical Analysis	3
PHY 135 College Physics I (GE)	4
PHY 136 College Physics II	4
ECO 321 Engineering Economics (GE)	3
The Arts (GE)	3
World Languages (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Liberal Arts and Sciences Electives	12
Required Major Courses	**(65 credits)**
BCS 120 Foundations of Computer Programming I	3
BCS 215 UNIX Operating Systems	3
BCS 230 Foundations of Computer Programming II	3
BCS 370 Data Structures	3
EET 105 Introduction to Digital Electronics	2
EET 110 Computer Applications	2
EET 111 Electric Circuits I	4
EET 113 Electric Circuits II	4
EET 118 Semiconductor Devices and Circuits	4
EET 223 Digital Electronics	4
EET 224 Amplifiers	4
EET 251 Microprocessors	3
EET 316 Digital Design	4
EET 418 Microprocessor Interfacing & Control	4
EET 440 Data Communications and Networking	4
EET 441 Advanced Networking	4
EET 450 Design Concepts**	2
EET 452W Design Project**	2
Technical Electives***	6
Total Credits:	**126-127**

*FYE 101 First Year Experience is required for all first time full time students.

**EET 450 and EET 452W must be completed in residence at Farmingdale State College.

***Technical Electives must be selected from EET 311, EET 317, EET 327, EET 426, or other courses in areas of student interest with Departmental approval.

Degree Type: BS
Total Required Credits: 126-127

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and

Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Computer Programming and Information Systems

Bachelor of Science Degree

The Computer Programming and Information Systems (CPIS) program is designed to give students a broad overview of topics in the central areas of computing, and to allow students the flexibility to specialize through the careful selection of electives. The CPIS baccalaureate degree program requires a set of core courses that all graduates must take. The Core courses provide a diverse but fundamental foundation in technology. In addition, the student selects elective courses, each of which provides a deeper dive into one or more of the areas of computing, including programming, systems development, networking, web development, database, and artificial intelligence and machine learning. It provides a practical hands-on approach to programming with an emphasis on solving business problems.

The program is aligned with current industry needs and best practices in Information Technology. It provides students with a broad foundation across a wide range of computing disciplines while emphasizing the practical skills and technologies used in today's workplace. Unlike a traditional Computer Science curriculum, the CPIS curriculum focuses on applied learning and real-world problem solving, preparing graduates for diverse careers in computing through a balanced combination of technical knowledge, hands-on experience, and professional skills. The program offers greater flexibility and breadth across computing topics while requiring fewer theory, programming, and mathematics courses.

Typical Employment Opportunities

- Software Engineer
- Mobile Application Developer
- Programmer/Analyst
- Web Developer
- Database Administrator
- Network Administrator
- AI Engineer
- Quality Assurance Technician
- Systems Analyst
- IT Support Engineer

With the selection of the appropriate electives, students can fulfill the required prerequisites for graduate study in AI, Computer Science, Cybersecurity, and other related technology programs.

Computer Programming & Information Systems (BS) Program Outcomes:

- Graduates will be trained as technical problem solvers and will receive the knowledge and skills necessary to function and grow in this high-demand workforce.
- Graduates will have had experiential learning opportunities such as internships and/or capstone projects.
- Graduates will have an understanding of social and ethical issues as it relates to information technology.
- Graduates will be effective communicators and work successfully in teams.

Student Outcomes:

Upon completion of the program students will be able to:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- Communicate effectively in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
- Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61-63 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing OR PCM 324 Report Writing and Technical Communications	3
Communication- Written and Oral (SPE 130, SPE 202, SPE 231, SPE 330, SPE 331) (GE)	3
The Arts (GE)	3
World Languages (GE)	3
Humanities (GE)	3
Social Sciences (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Natural Sciences and Scientific Reasoning (GE)	6-8
MTH 130 Calculus I w Applications (GE)	4
MTH 110 Statistics	3
300 level Arts & Sciences Elective	9
Any level Arts & Sciences Elective	9
Arts & Sciences Elective 300 level if SPE 130 or SPE 202 used for oral communications gen ed	3

Required: Business & Computer Systems	(60 credits)
BCS 109 Introduction to Programming	3
CSC 111 Computer Programming I	3
BCS 160 Computers, Society, and Technology	3
CSC 211 Computer Programming II	3
BCS 215 UNIX Operating System	3
CSC 229 Data Structures and Algorithms I	3
BCS 260 Introduction to Database Systems	3
BCS 262 Data Communications OR BCS 208 Introduction to Networks	3
BCS 300 Management Information Systems	3

CSC 325 Software Engineering	3
BCS 350 Web Database Development	3
CSC 375W Ethical Issues in Computing	3
BCS 378 Information Security	3
BCS 430 Senior Project	3
BUS/BCS/CSC/CPS/SST Elective**	3
BCS/CSC Elective**	3
BCS/CSC upper-level elective	6
BCS/CSC 300 level elective OR pre-approved 300 level+ SST/MET/CPS electives	6

Among the acceptable BCS Upper Level Electives is an internship course that allows students to earn credit while they work on computer-related problems under the tutelage of professional information services at an organization or corporation.

*First Year Experience is required for all first time full time students

**BCS 102 cannot be used to meet this elective

Technical Electives can be fulfilled with any appropriate level BCS/CSC courses

The following SST/MET/CPS courses are pre-approved as 300+ level electives:

- MET 301 Three -Dimensional Printing Application
- CPS 305 Foundations of Cryptography
- CPS 401 Applied Cryptography
- SST 314 Cybersecurity Law and Policy

The following courses must be completed in residence at Farmingdale State College:

- BCS 350 Web Database Development,
- BCS 378 Information Security, and
- BCS 430 Senior Project
- CSC 375W Ethical Issues in Computing

Degree Type: BS
Total Required Credits: 121-124

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

1: For all BCS/CSC courses that require a BCS/CSC prerequisite, the BCS/CSC prerequisite must be completed with a grade of C or better. 2: Students must complete at least 18 credits with BCS/CSC designation at Farmingdale. 3: Students with life experience may challenge up to 3 courses (9 credits via credit-by-evaluation).

Computer Science

Bachelor of Science Degree

Computer Science is a discipline that studies computer architecture, software design, algorithms, information processing, computer applications and systems, and the mathematical foundations of computing. The four-year Bachelor of Science Degree in Computer Science is a student-centered industry-informed B.S. degree that leads to employment or graduate study in the field of computer science. The computer science content and curriculum build upon the work of the Association for Computing Machinery (ACM), the Institute of Electrical and Electronics Engineers Computer Society (IEEE), and the Association for the Advancement of Artificial Intelligence (AAAI), three major professional organizations in Computer Science and AI. The three organizations have published the ACM/IEEE/AAAI Computer Science Curriculum 2023 guidelines, the most prominent national standard for Computer Science degree curricula, which formed a basis for our CS curriculum. The curriculum is designed to ensure students receive a broad foundation in computer science fundamentals, natural sciences, mathematics, and communication skills. Students will also be able to expand their abilities through advanced elective offerings.

Students will develop proficiency in software design and algorithms by working both individually and in team environments. They will analyze, design, and build complex software components in diverse, collaborative teams to solve industry-informed relevant problems. Students in this program will expand their ability to communicate and collaborate across disciplines. An essential part of this program is a culminating experience to be completed in the senior year. Students generate their final projects, based on their interests and real-world issues. Students will be encouraged to participate in a research project with faculty and to collaborate with representatives from industry.

Computer Science graduates are trained for a wide variety of roles in the information technology and computing field. Graduates will possess strong problem-solving, communication, and leadership skills, which will enable them to become lifelong learners ready to become experts in their chosen field.

Typical Employment Opportunities

- Software Developers
- Software Engineers
- QA Engineers
- Data Analysts
- Web Developers
- Technical Account Specialists
- Research Assistants

Computer Science (BS) Program Educational Outcomes:

- Graduates find rewarding jobs in computer science and related fields while maintaining high ethical standards
- Graduates can communicate solutions to key stakeholders and clients
- Graduates can advance professionally through organized training, graduate study, and/or self-learning
- Graduates should maintain involvement in professional organizations while engaging in lifelong learning to stay current with evolving computer science technologies

Student Outcomes:

Upon completion of the program students will be able to:

- Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions
- Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline
- Communicate effectively in a variety of professional contexts
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles
- Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline
- Apply computer science theory and software development fundamentals to produce computer-based solutions

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(52-54 credits)
EGL 101 Composition I: College Writing (GE)	3

EGL 102 Composition II: Writing About Literature	3
Communication- Oral (SPE330 or SPE331) (GE)	3
The Arts (GE)	3
Natural Sciences and Scientific Reasoning (GE) chosen from BIO 130, BIO 131, CHM 152, CHM 153, PHY 143, or PHY 144	8
Humanities (GE)	3
MTH 150 Calculus I (GE) or	4
MTH 130 Calculus I with Applications	4
World Languages (GE)	3
Social Sciences (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Arts and Science Electives	6
300-level Arts and Science Electives	3
Preapproved Mathematics Elective**	4-6
MTH110 Statistics or MTH360 Applied Probability and Statistics	3

Required Computer Science (68 credits)

CSC 101 Introduction to Computing	3
CSC 111 Computer Programming I	3
CSC 211 Computer Programming II	3
CSC 229 Data Structures and Algorithms I	3
CSC 243 Computer Architecture and Organization	3
CSC 251 Discrete Structures	4
CSC 311 Advanced Programming***	3
CSC 321 Principles of Programming Languages	3
CSC 325 Software Engineering	3
CSC 329 Data Structures and Algorithms II***	3
CSC 332 Computer Networking	3
CSC 343 Operating Systems	3
CSC 363 Data Management	3
CSC 375 Ethical Issues in Computing***	3
CSC 490 Senior Project***	4
CSC Upper Level Elective	6
Approved BCS/CPS/MET and/or any CSC Upper Level Elective	6
Free Electives	9

Among the acceptable BCS Upper Level Electives for Computer Science majors is an internship course that allows students to earn credit while they work on computer-related problems under the tutelage of professional information services at an organization or corporation. This course will be allowed for Computer Science majors with prior approval of the department only.

*FYE 101 First Year Experience is required for all first time full time students

***The following courses must be completed in residence at Farmingdale State College:

- CSC 311 Advanced Programming,
- CSC 329 Data Structures and Algorithms II,
- CSC 375W Ethical Issues in Computing, and
- CSC 490 Senior Project

Degree Type: BS
Total Required Credits: 120-123

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

** Consult the department or DegreeWorks for the latest list of approved electives. Unapproved BCS courses **will not** count towards the major without prior written approval by the department.

Preapproved BCS/CPS/MET electives:
BCS 350 Web Database Development
BCS 360 Programming in SQL
BCS 377 Web Development Frameworks
BCS 378 Information Security
BCS 380 Advanced Database Programming
BCS 425 Business Intelligence and Data Warehousing
BCS 426 C# Programming
BCS 428 Large Software System Development
BCS 440 CPIS Internship
BCS 460 Independent Study
CPS 305 Foundations of Cryptography
CPS 401 Applied Cryptography

Preapproved Mathematics electives:
ECO 380 Econometrics (3 credits)
MTH 151 Calculus II (4 credits)
MTH 236 Calculus II with Applications (3 credits)
MTH 245 Linear Algebra (3 credits)
MTH 246 Introduction to Financial Mathematics (3 credits)
MTH 252 Calculus III (4 credits)
MTH 270 Introduction to Mathematical Computation (3 credits) MTH 346 Quantitative Finance (3 credits)
MTH 360 Applied Probability and Statistics (3 credits)
MTH 390 Methods in Operations Research (3 credits)
MTH 420 Statistical Data Mining (3 credits)

Computer Security Technology

Bachelor of Science Degree

The Bachelor of Science degree in Computer Security Technology prepares students to combat the increasing security issues and challenges in the digital environment, including computer systems, computer networks, and cyberspace. Graduates will be able to face security threats and protect valuable information and physical resources from unauthorized access and malicious activities. The curriculum covers the following major topics.

- Computer Security: cryptography, malware analysis, and prevention, risk analysis.
- Programming: C++, UNIX, and Python.
- Computer Network: routing protocols, VLANs, access control lists, and subnetting.
- Network Security: intrusion detection, virtualization, penetration testing, and network defense.
- Systems Security: digital systems, operating system security, smart grid security.
- Computer Vision: image processing, biometrics.

Skilled cybersecurity personnel are sought after in a plethora of different industries to make sure networks are safe and secure. Graduates of the program will possess strong problem-solving, communication, and leadership skills. These will enable them to become confident employees able to properly secure a network.

Typical Employment Opportunities

- Corporate Security
- Federal, State, and Local Security Agencies
- Software Industries
- Computer and Information Systems Manager
- Security Operation Center (SOC) analysis
- IT Security Specialists
- Cybersecurity

Graduates of the B.S. in Computer Security Technology program will have the ability to:

1. Analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply security principles and practices to maintain operations in the presence of risks and threats.

Computer Security Technology (BS) Program Educational Objectives:

- Find rewarding jobs in Cybersecurity, or related fields
- Pursue further education or professional certifications
- Take on leadership roles in their field
- Get involved in professional organizations while engaging in lifelong learning to stay current with evolving cybersecurity technologies

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(62 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
MTH 110 Statistics	3
MTH 129 Precalculus with Applications	4
MTH 130 Calculus I with Applications	4
PHY 135 College Physics I	4
PHY 136 College Physics II	4
BIO 120 General Biology	4
Humanities (GE)	3
The Arts (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
World Languages (GE)	3
Liberal Arts & Sciences Electives	9
ECO 321 Engineering Economics	3
EGL 310 Technical Writing	3
300-400 Level Liberal Arts/Sciences Electives	6

Required Courses:	(59 credits)
BCS 120 Foundations of Computer Programming	3
BCS 230 Foundations of Computer Programming II	3
CPS 201 Digital Security	3
CPS 203 Data Security and Privacy	3
CPS 205 Digital Signal and Image Processing	3
CPS 235 Fundamentals of AI in Cybersecurity	3
CPS 301 Biometric Recognition	3
CPS 303 Operating Systems and Security	3
CPS 305 Foundations of Cryptography	3
CPS 325 Vulnerability Analysis	3
CPS 401 Applied Cryptography	3
CPS 405W Senior Project	3
CPS 460 Network Security	3
SST 115 Digital Systems	3
Computer Networking Electives: EET 440, 441, BCS 208, 209, 320, 321	8-9
400 Level CPS Elective	3
300-400 Level Technical Electives ** (BCS, CPS, CSC, SET, SST)	6

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 121-123

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may

also earn other special designations such as those for Applied Learning or Writing Intensive.

**Technical Elective courses can be selected in consultation with the student's academic advisor within the course designations of SET, SST, BCS, CSC and CPS.

300-400 Level Suggested Technical Electives:
BCS 318 Virtualization & Cloud Computing
CPS 461 Ethical Hacking
CPS 462 Smart Grid Security
CPS 463 Distributed Systems and Security
CPS 491 Computer Security Internship
SST 440 Bitcoin & Cryptocurrency

Construction Management Engineering Technology

Bachelor of Science Degree

The Construction Management Engineering Technology program has been designed to respond to the need for skilled professionals possessing the level of sophistication necessary to accommodate technology applications in the construction industry. Courses apply extensive use of the computer in the technical specialty together with upper level mathematics, economics, and communications skills.

The Construction Management Engineering Technology program encompasses study in traditional engineering technology offerings (Statics, Strength of Materials, Structural Design, Materials Testing, etc.). The program is complemented with offerings in project control, scheduling, cost control, quality control, construction productivity, and economics. It prepares students for employment in an emerging occupation within the construction industry. Graduates will possess expertise in construction and specialized administrative skills commensurate with industry requirements for coordination of design documents and project manuals prepared by design professionals.

The Bachelor of Science in Construction Management Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, under the General Criteria and Program Criteria for Construction Management Technology and Similarly Named Programs.

In New York State, graduates may sit for the Fundamentals of Engineering (FE) Exam upon graduation and the Professional Engineering (PE) exam after working six years under a professional engineer.

Construction Management Engineering Technology (BS) Program Outcomes:

- Find rewarding jobs in construction management or related fields
- Pursue further education or professional certifications
- Take on leadership roles in their field
- Get involved in professional organizations while engaging in lifelong learning to stay current with evolving technologies

Potential Employment Opportunities

- Project Manager
- Assistant Project Manager
- Project Engineer
- Project Estimator
- Scheduling Engineer

Student Club – Architecture and Construction Technology (ACT) Club

Student Learning Outcomes: Construction Management Engineering Technology

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
5. An ability to function effectively as a member as well as a leader on technical teams.

Students must review the technical standards for this program found in the Admissions Information section of the College Catalog.

ABET Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing (GE)	3
MTH 129 Precalculus (GE)	4
MTH 130 Calculus with Applications (GE)	4
MTH 236 Calculus II with Applications	3
MTH 390 Methods in Operations Research	3
PHY 135 Physics I (GE)	4
PHY 136 Physics II	4
Social Sciences (GE)	3
ECO 321 Engineering Economics	3
The Arts (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
World Languages (GE)	3
Liberal Arts & Sciences Electives	12

Required: Construction Management	(65 credits)
CON 103 Surveying	3
CON 106 Statics	3
ARC 111 Graphics I	2
ARC 121 Graphics II	2
BUS 109 Management Theory and Practices	3
CON 161 Materials & Methods of Construction I	3
CON 162 Materials & Methods of Construction II	3
CON 207 Elements of Strength of Materials	3
ARC 263 Mechanical, Electrical, Plumbing & Energy Systems in Buildings	3

CON 302 Soils, Foundations & Earth Structures	3
CON 351 Construction Safety	3
ARC 310 Construction Design	4
CON 350 Introduction to Construction Engineering	3
CON 355 Construction Management Financial and Accounting Principles	3
CON 357 Quantity Surveying and Costing	3
ARC 364 Site Design and Construction	3
CON 401W Construction Project Mgmt & Scheduling	3
CON 402 Civil Engineering Materials	3
CON 406 Advanced Project Planning and Scheduling	3
CON 409 Structural Design	3
Technical Elective**	3
CON 496 Capstone Project***	3
Total Credits:	**126-127**

*FYE 101 First Year Experience is required for all first time full time students

**CON 361, IND 308 or ARC 303 preferred. See advisor or department chair for additional technical electives.

***CON 496 and ARC 303 must be completed in residence at Farmingdale State College

Degree Type: BS
Total Required Credits: 126-127

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Criminal Justice: Law Enforcement Technology

Bachelor of Science Degree

The Bachelor of Science program in Criminal Justice: Law Enforcement Technology is a technical program that prepares students for careers in law enforcement on the local, state, and federal levels. Other career opportunities exist with private police and military police forces.

The program blends courseware in computers, forensics, crime prevention, and technology to provide students with the necessary skills to control crime as well as to conduct investigations of crimes committed on a computer or at a crime scene. Students are provided with a legal foundation in the study of digital evidence, which is an essential element of cyber investigations.

The program will provide graduates with technical skills to pursue careers in the protective services as well as for in-service personnel who may seek career advancement. Students are also provided with a broad based educational experience that draws from the deep reservoirs of knowledge of the arts and sciences. Graduates who wish to continue their education will find that the program will adequately prepare them for graduate studies in criminal justice and related fields.

Students majoring in Criminal Justice: Law Enforcement Technology will take a total of 122 credits of which 61 credits are in criminal justice and 61 credits are in liberal arts and sciences, with 33 credits as free electives. In the first two years of the program, students will have completed basic courses in criminal justice with acquired competencies in criminal and procedural law, criminal investigation and criminalistics. In the third year of study, students will take the more advanced technology courses. The advanced technology courses will provide students with skills in computer forensics, forensic imaging and video analysis, criminal justice database management, crime analysis and mapping, and crime prevention technology. The program concludes with a senior project capstone course which may involve the analysis of a discipline-related technical problem or the development of a research project.

Typical Employment Opportunities:

- Police and Sheriff's Patrol Officers
- Transit and Railroad Police
- Corrections

Special Opportunities:

- Internships
- One-on-one Student-Faculty Research
- Clubs (Criminal Justice Club and Pre-Law Club)
- Honor Societies (Alpha Phi Sigma and Sword & Shield)

Criminal Justice: Law Enforcement Technology (BS) Program Outcomes:

- Graduates will have knowledge of criminal investigations and criminalistics and be able to analyze the elements that constitute crimes and effectively apply scientific methods towards crime scene investigations.
- Graduates will have knowledge of the technologies used in a variety of criminal justice and law enforcement applications ranging from crime scene investigations to digital forensic investigations.
- Graduates will gain competencies in evidence collection, documentation, analysis and maintenance of chain of custody as well as the laws and guidelines associated with these matters.
- Graduates will take specialized courses to gain knowledge in areas such as geographical information systems, crime analysis and prevention, security, and law enforcement technologies.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(49 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
MTH 110 Statistics (GE)	3
PSY 101 Intro to Psychology (GE)	3
PSY 315 Abnormal Psychology	3
SOC 122 Intro to Sociology (GE)	3
SOC 229 Race and Ethnic Relations OR SOC 231 Multiculturalism	3
Natural Sciences and Scientific Reasoning with a lab (GE)	4
US History and Civic Engagement/ World History and Global Awareness(GE)	3

The Arts (GE)	3
Humanities (GE)	3
Oral Communication (GE)	3
World Languages (GE)	3
Free Electives	9

Required courses in the Major	(74 credits)
GIS 222 Geovisualization	4
CRJ 100 Introduction to Criminal Justice	3
CRJ 101 Law Enforcement Community Relations	3
CRJ 105 Corrections in America	3
CRJ 200 Criminal Investigation	3
CRJ 203 Criminology	3
CRJ 205 Criminal Procedure Law	3
CRJ 245 Logic & Reasoning in Criminal Justice	3
CRJ 301 Criminalistics	3
CRJ 345 Intelligent Systems in Criminal Justice	3
CRJ 374 Intelligence Operations	3
CRJ 385 Criminal Justice Research Methods	4
CRJ 400 Forensic Technology	4
CRJ 406 Crime Analysis and Mapping	3
CRJ 407 Crime Prevention Systems	4
CRJ 410W Senior Paper OR CRJ 460W Senior Project	3
CRJ 445 Intelligent Systems Integration & Oversight	3
Upper Division Electives**	18
Total Credits:	**123-124**

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 123-124

****Upper Division Technical Electives**

CRJ 300/PSY 300 Forensic Psychology
CRJ 307 Database Operations
CRJ 309 Crime, Justice and the Media
CRJ 316 Victimology
CRJ 325 Fraud Examination
CRJ 350 Courts and the Judiciary
CRJ 354 Police Leadership
CRJ 355 Mental Health and Criminal Justice
CRJ 360 Probation and Parole
CRJ 365 Alternative Court Programs in Society
CRJ 370 Patrol Operations
CRJ 380 - Homeland Security and Counterterrorism
CRJ 390 Organized Crime
CRJ 393 Environmental Crime
CRJ 395 Gangs in the U.S.
CRJ 405 Corrections and Reentry
CRJ 425 Policy and Program Evaluation
CRJ 430 Forensic DNA Analysis
CRJ 441 Environmental Law
CRJ 442 Wildlife Crime Investigation
CRJ 444 Intelligence Analysis
CRJ 450 Privacy and Equality
CRJ 454 Ethics and Leadership in Criminal Justice
CRJ 458 Criminal Justice Internship
CRJ 490 Topics in Criminal Justice

Any 300 or 400 level GEO/GIS course

PSY 304 Multicultural Psychology
PSY 311 Organizational Behavior
PSY 331 Industrial/Organizational Psychology

POL 310 Introduction to Political Theory

SOC 325 Social Inequality
SOC 329 Social Movements
SOC 342 Deviance: Crime, Sex and Drugs

STS 300 Special Topics: Science, Technology and Society

Criminal Justice: Police, Courts and Corrections

Bachelor of Science Degree

The Bachelor of Science program in Criminal Justice: Police, Courts, and Corrections prepares students for careers in law enforcement and corrections on the local, state, and federal levels. Career opportunities for graduates also exist with the courts, as well as with private police and military police forces.

The program blends coursework in patrol operations, homeland security and counterterrorism, courts and the judiciary, probation and parole, privacy law, civil rights and liberties, law enforcement administration, leadership and ethics, intelligence operations, and intelligence analysis to provide students with the ability to develop tactical and strategic plans to reduce crime and protect society.

The goal of this program is to produce graduates with a critical understanding of criminal justice agency operations, theories, and practices, crime and its causes, how intelligence operations and analysis can improve the ability of the police to counter terrorism and crime and who are prepared to use modern criminal justice agency operations and specialized approaches in the design of crime reduction programs.

Typical Employment Opportunities:

- Police and Sheriff's Patrol Officers
- Transit and Railroad Police
- Corrections and Probation
- Policymaking

Special Opportunities:

- Internships
- One-on-one Student-Faculty Research
- Clubs (Criminal Justice Club and Pre-Law Club)
- Honor Societies (Alpha Phi Sigma and Sword & Shield)

Criminal Justice: Police, Courts, and Corrections (BS) Program Objectives:

- Graduates will be able to utilize intelligence operations and analysis in the design of police strategic and tactical planning efforts.
- Graduates will be able to undertake and complete the design and implementation of criminal justice agency programs aimed at reducing crime.
- Graduates will be able to develop an assessment program which measures and evaluates criminal justice agency performance.
- Graduates will be able to formulate and interpret policies the impact the criminal justice system in its efforts toward public safety.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(37 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Oral Communications (GE)	3
MTH 110 Statistics (GE)	3
Humanities (GE)	3
The Arts (GE)	3
World Languages (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Natural Sciences and Scientific Reasoning with a lab (GE)	4
PSY 101 Introduction to Psychology (GE)	3
SOC 122 Introduction to Sociology (GE)	3
SOC 229 Race and Ethnic Relations (GE) OR SOC 231 Multiculturalism (GE)	3

Required: Lower Division	(36 credits)
CRJ 100 Intro to Criminal Justice	3
CRJ 101 Law Enforcement and Community Relations	3
CRJ 102 Juvenile Delinquency	3
CRJ 105 Corrections in America	3
GIS 101 Digital Earth	3
CRJ 200 Criminal Investigation	3
CRJ 203 Criminology	3
CRJ 205 Criminal Procedure Law	3
CRJ 211 Law Enforcement Administration	3
CRJ 245 Logic & Reasoning in Criminal Justice	3
Free Electives	6

Required: Upper Division	(48 credits)
CRJ 301 Criminalistics	3
CRJ 350 Courts and the Judiciary	3
CRJ 360 Probation and Parole	3
CRJ 374 Intelligence Operations	3
CRJ 380 Homeland Security and Counterterrorism	3
CRJ 385 Criminal Justice Research Methods	3
CRJ 410W Senior Paper **OR** CRJ 460W Senior Project	3
CRJ 425 Policy and Program Evaluation	3
CRJ 450 Privacy and Equality	3
CRJ 454 Ethics and Leadership in Criminal Justice	3
HIS 341 Terrorism & Modern World	3
PSY 315 Abnormal Psychology	3
Upper Division Technical Elective**	12
Total Credits	121-122

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 121-122

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

**Technical electives may be selected from the following list:

CRJ 300/PSY 300 Forensic Psychology
CRJ 307 Database Operations
CRJ 309 Crime, Justice and the Media
CRJ 316 Victimology
CRJ 325 Fraud Examination
CRJ 354 Police Leadership
CRJ 355 Mental Health and Criminal Justice
CRJ 365 Alternative Court Programs in Society
CRJ 370 Patrol Operations
CRJ 380 - Homeland Security and Counterterrorism
CRJ 390 Organized Crime
CRJ 393 Environmental Crime
CRJ 395 Gangs in the U.S.
CRJ 400 Forensic Technology
CRJ 405 Corrections and Reentry
CRJ 406 Crime Analysis & Mapping
CRJ 407 Crime Prevention Systems
CRJ 430 Forensic DNA Analysis
CRJ 441 Environmental Law
CRJ 442 Wildlife Crime Investigation
CRJ 444 Intelligence Analysis
CRJ 454 Ethics and Leadership in Criminal Justice
CRJ 458 Criminal Justice Internship
CRJ 490 Topics in Criminal Justice

Any 300 or 400 level GEO/GIS course

PSY 304 Multicultural Psychology
PSY 311 Organizational Behavior
PSY 331 Industrial/Organizational Psychology

POL 310 Introduction to Political Theory

SOC 325 Social Inequality
SOC 329 Social Movements
SOC 342 Deviance: Crime, Sex and Drugs

STS 300 Special Topics: Science, Technology and Society

Dental Hygiene

Bachelor of Science Degree

The Bachelor of Science in Dental Hygiene program prepares students for licensure and entry into the profession of dental hygiene, as well as certification in the administration of local infiltration anesthesia/nitrous oxide analgesia. This optional BS program will offer students a broad foundation of knowledge that will prepare them for the emerging roles within oral healthcare. The optional BS program in Dental Hygiene is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of "Approval without Reporting Requirements." The program will be reviewed again at the next scheduled site visit in 2030. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The Commission's web address is: www.ada.org/coda. Graduates receive a Bachelor of Science degree and are eligible to sit for the National Dental Hygiene Board Examination, as well as State and Regional Practical Board Examinations for dental hygienists.

As the dental hygiene profession continues to expand, career opportunities beyond clinical practice will require a higher level credential such as a bachelor's degree. Emphasis is placed on broadening the career paths for practicing hygienists. Foundation courses are in the areas of teaching, research and public health with an emphasis on service learning and inter-professional collaboration. Although the clinical role is most closely connected with dental hygiene, it is only one of six roles formally designated for the hygienist, which include educator, researcher, administrator, change agent, and consumer advocate. The Bachelor of Science Degree in Dental Hygiene is designed to provide comprehensive upper-level studies that will prepare dental hygienists to adapt to the emerging new roles in oral healthcare. All aspects of dental hygiene are incorporated into the theoretical framework and practical experiences of the curriculum. The program includes general education as well as specialized coursework in the biomedical and oral sciences.

Students perform a variety of comprehensive services at the College's technologically advanced Dental Hygiene Care Center. Among these services are thorough assessment of oral conditions, non-surgical periodontal therapy (scaling and root planing of teeth), exposing, processing and interpreting oral x-rays, patient education and nutritional counseling. In addition students in the Bachelor curriculum will participate in a number of off campus clinical rotations in hospital settings.

The Dental Hygiene Care Center is in compliance with all Occupational and Safety Health Administration (OSHA)/Infection Control regulations regarding infectious diseases and bloodborne pathogens.

As a condition for acceptance into the dental hygiene program all applicants are required to submit evidence of satisfactory health. Evidence of immunization and adequate titers for measles, mumps, rubella and varicella must be provided. In addition, matriculated students will be required to take a yearly Mantoux test for tuberculosis. Students are strongly urged to submit evidence of immunization and titer for Hepatitis B. It is recommended that students who test negatively for Hepatitis B receive the appropriate vaccine. Students who decline this recommendation will be required to sign a waiver of responsibility. All Dental Hygiene students are required to participate in the group liability policy, provided by the college, which will afford malpractice coverage during the time enrolled in the dental hygiene curriculum.

Outclinic Rotations
Matriculated dental hygiene students must provide proof of citizenship or immigration status to participate in certain outclinic rotations. Students who do not participate in outclinic rotations may be unable to meet the graduation requirements.

Licensure and Certification Requirements
Applicants must be a United States citizen, or an alien lawfully admitted for permanent residence in the United States to apply for a Dental Hygiene License and Local Anesthesia/Nitrous Oxide Certification.

For further information visit NYS Office of the Professions

Students who have previously been convicted of a felony are advised that their prior criminal history may impede their ability to complete the requirements of certain academic programs and/or to meet licensure requirements for certain professions. Students who have concerns about such matters are advised to contact the department chair. The State Certifying Board may grant a waiver based upon mitigating circumstances. Contact NYS Office of the Professions for further information at www.op.nysed.gov.

Typical Employment Opportunities

- Private Dental Offices
- Geriatric Facilities
- Public Health Agencies
- Research Laboratories
- School Health Services
- Pharmaceutical Corporations
- Private Care Center
- Dental Supply Companies
- Hospitals
- Armed Forces
- Insurance Companies
- Managed Care Facilities

Dental Hygiene (BS) Program Outcomes:

- Graduates will identify the skills necessary to provide comprehensive dental hygiene care to the general population including the adolescent, geriatric and special needs patient.
- Graduates will develop an expertise in the area of health promotion and disease prevention through assessment, planning, implementation and evaluation of community based oral health programs and effective interaction with diverse population groups.
- Graduates will explain the role of leadership, management, and technology as it applies to dental hygiene practice.
- Graduates will develop the skills necessary to analyze and apply scientific literature in the dental hygiene process of care.
- Graduates will demonstrate an understanding of the learning process, various teaching methodologies and evaluation techniques as they apply to the dental hygiene educator.
- Graduates will practice professional judgment and critical thinking skills for recognition and management of ethical, legal and regulatory issues.
- Graduates will demonstrate a sense of professionalism as health care providers including self-assessment and will seek educational advancement for continued growth and development following commencement.

Special Opportunities

As a student in the Dental Hygiene Bachelor of Science Degree Program you are required to participate in the Student American Dental Hygienists' Association (SADHA) which promotes student leadership through community outreach, lunch and learn programs, and various campus activities.

NYS Mandatory Licensure Disclosure Statement

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(60 credits)
BIO 166 Anatomy & Physiology (GE)	4
CHM 140 Intro to General, Organic & Biochemistry (GE)	4
BIO 221 Oral Microbiology (GE)	4
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
MTH 110 Statistics (GE)	3
PSY 101 Introduction to Psychology (GE)	3
SOC 228 Society & Health (GE)	3
SPE 202 Interpersonal Communications (GE)	3

SPE 330 Professional and Technical Speech	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
The Arts (GE)	3
World Languages Level I (GE)	3
World Languages Level II (GE)	3
Humanities (GE)	3
Upper Level Liberal Arts & Science Elective (300 level & above)	12

Required: Dental Hygiene	**(65 credits)**
DEN 102 Dental Materials & Expanded Functions	3
DEN 105 Dental & Oral Anatomy	3
DEN 106 Oral Radiology I	3
DEN 108 Oral Histology & Embryology	2
DEN 110 Preventive Oral Concepts I	2
DEN 115 Clinical Dental Hygiene I	3
DEN 126 Periodontology	2
DEN 203 Principles of Nutrition for Oral Health Professionals	2
DEN 205 Oral Pathology	2
DEN 207 Oral Radiology II	1
DEN 212 Pharmacology	3
DEN 220 Preventive Oral Health Concepts II	2
DEN 225 Clinical Dental Hygiene II	3
DEN 302 Principles of Dental Anesthesia	2
DEN 310 Teaching Strategies for Health Educators	3
DEN 322 Dental Public Health Planning I	2
DEN 323 Dental Public Health Planning II	1
DEN 330 Essentials of Clinical Practice Theory	2
DEN 335 Essentials of Clinical Practice I	4
DEN 340 Dental Hygiene Law and Practice Management	2
DEN 345 Essentials of Clinical Practice II	4
DEN 401W Health Science Research Principles & Methods	3
DEN 406W Proposals & Grant Management for Health Programs	3
DEN 430 Senior Seminar I	1
DEN 435 Advanced Dental Hygiene Practice I	3
DEN 440 Senior Seminar II	1
DEN 445 Advanced Dental Hygiene Practice II	3
Total Credits	125-126

All courses with a DEN prefix must be completed in residency.

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 125-126

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes: Once a student has been admitted to DEN 105, courses must be completed in semester sequence, without interruption. Any student who misses a semester will not be permitted to continue in the program until approval has been obtained (if granted) from the Admissions and Academic Standards Committee of the Dental Hygiene Department. Students who have been given permission to continue in the program will be required to take the skills refresher course DEN 015. Procedural information may be obtained from the Department Chair of Dental Hygiene in Gleeson Hall. 1. The nature of this program will expose students to bodily fluids and blood borne pathogens. The Dental Hygiene Department adheres strictly to the Occupational and Safety Health Administration (OSHA) Guidelines for infectious disease control. 2. Students must be certified in Basic Life Support for Health Care Providers prior to entering the clinical sequence 3. Students are required to provide their own transportation to off campus field experiences. For all field experiences, student dress must conform with field agency protocol. 4. Students are required to purchase their own instruments and specific clinically related supplies. 5. A grade of "C" (2.0) or better must be maintained in all courses with a DEN, BIO, CHM or ENG prefix. A failure in a clinically related area constitutes withdrawal from the Dental Hygiene curriculum. 6. Students are also required to provide their own patients (approximately 8) for clinic during the second semester of the program.
Dental Hygiene Admission Requirements from High School:

High School Diploma or GED
Integrated Algebra and Geometry
Laboratory Biology
Laboratory Chemistry

* In addition to the high school requirements, applicants not applying directly from high school are required to complete the following courses prior to admission:

- EGL 101
- BIO 166

Dental Hygiene Completion - online

Bachelor of Science Degree

The Bachelor of Science Degree Program in Dental Hygiene is designed to meet the transfer and continuing education needs of Associate in Applied

Science Degree or Associate in Science Degree graduates in Dental Hygiene. This program will offer students a foundation of knowledge that will prepare them for the emerging roles within the dental hygiene profession. Emphasis is placed on broadening the career paths for practicing hygienists. Foundation courses are in the areas of teaching, research and public health. As part of the capstone practicum course, students are given the opportunity to further explore a specific area of interest through an internship. Based on personal interest, students may partner with corporations, hospitals, public health programs/facilities or educational institutions.

As the dental hygiene profession continues to expand many career opportunities require advanced degrees. This degree completion program in dental hygiene is tailored to provide comprehensive upper-level studies that will prepare dental hygienists to adapt to the emerging new roles in oral healthcare.

Please refer to the Safety and Technical Standards in the front section of the College catalog.

Typical Employment Opportunities

- Clinical Research
- Dental Hygiene Education
- Dental Insurance Companies Geriatric Facilities, Case Management
- Patient Advocacy
- Pharmaceutical Corporations, Sales and Management
- Pharmaceutical Corporations, Research and Development
- Public Health Agencies

Dental Hygiene (BS Degree Completion) Program Outcomes:

- The dental hygiene graduate will be able to utilize professional judgment and critical thinking skills to determine the treatment needs of geriatric and special needs patients.
- The dental hygiene graduate will appreciate the role of leadership, management, and technology as it applies to dental hygiene practice.
- The dental hygiene graduate will develop the skills necessary to analyze and apply scientific literature in the dental hygiene process of care.
- The dental hygiene graduate will be able to develop a comprehensive community based oral health care program.
- The dental hygiene graduate will demonstrate an understanding of the learning process, various teaching methodologies and evaluation techniques as they apply to the dental hygiene educator.
- The dental hygiene graduate will be empowered to seek employment opportunities other than traditional clinical practice.
- The dental hygiene graduate will seek educational advancement for continued growth and development following commencement.

Special Opportunities

As a student in the Dental Hygiene Bachelor of Science Degree Completion Program in dental hygiene, you are required to participate in the Student American Dental Hygienists' Association (SADHA) which promotes student leadership through community outreach, lunch and learn programs, and various campus activities.

To facilitate transfer into graduate level programs, the Dental Hygiene Department has established seamless transfer agreements with Stony Brook University, School of Health Technology and Management for a Master of Science in Health Care Policy and Management, and University of Bridgeport, Fones School of Dental Hygiene for a Master of Science in Dental Hygiene.

Liberal Arts and Sciences	(39 credits)
The Arts (GE)	3
MTH 110 Statistics (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
BIO 240 Bioethics	3
World Languages – Level II (GE)	3
Humanities (GE)*	3
Free Elective	3
Liberal Arts & Science Electives*	18

*** 200 level or above recommended**

Compare the Liberal Arts and Sciences courses you have successfully completed in your associate degree program to confirm general education requirements that you have met.

Grade of C or higher in EGL 102 is a graduation requirement.
EGL 102 is to be completed in the first semester as a program requirement

College and Program Requirement	credits
EGL 102 Composition Literature	3
Required: Dental Hygiene	**(22 credits)**
DEN 303 Practice Management for Quality Assurance	3
DEN 309 Oral Epidemiology in Public Health	3
DEN 310 Teaching Strategies for Health Care Educators	3
DEN 401W Health Science Research: Principles and Methods	3
DEN 402 Gerontology	3
DEN 406W Proposals and Grant Management for Health Programs	3
DEN 407 Dental Hygiene Practicum Seminar	1
DEN 409 Dental Hygiene Practicum	3
Total Credits:	**64**

Note: Students must take at least one 3 credit hour course designated as Writing Intensive to graduate.

Degree Type: BS
Total Required Credits: 64

All courses with a DEN prefix must be completed in residence at Farmingdale State College

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Dental Hygiene Admission Requirements
Associate Degree in Dental Hygiene from an ADA Accredited Program; Licensure as a Dental Hygienist; GPA to be considered

Electrical Engineering Technology

Bachelor of Science Degree

The Bachelor of Science degree program in Electrical Engineering Technology is designed to meet the transfer and continuing education needs of associate degree graduates in EET or other related disciplines as well as to address the industry needs for graduates with sound and current skills in electrical engineering technology.

The program has a sound foundation of mathematics and physics, provides a variety of electives in the arts, sciences and the humanities and is focused on applying current engineering technology methods to the solution of technical problems. Transfer admission is open to students from related degree programs and with proper academic advisement the students are able to complete the degree requirements in a timely fashion.

Program graduates are well prepared for a wide range of industry positions in the areas of electronic product development, automated testing, quality control, technical sales, technical writing, management, etc.

This program is accredited by the Engineering Technology Accreditation Commission of ABET.

Electrical Engineering Technology (BS) Program Educational Objectives:

After completing the program, graduates will:

- Find rewarding jobs in electrical engineering technology or related fields
- Pursue further education or professional certifications
- Take on leadership roles in their field
- Get involved in professional organizations while engaging in lifelong learning to stay current with evolving technologies

Student Learning Outcomes:

Upon completion of the program students will be able to:

1. Apply knowledge, techniques, skills, and modern tools of mathematics, science, engineering, or technology to solve broadly-defined engineering problems appropriate to the discipline

2. Design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline

3. Apply written, oral, and graphical communication in broadly defined technical and nontechnical environments; and an ability to identify and use appropriate technical literature

4. Conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes

5. Function effectively as a member or leader on a technical team

ABET Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing	3
MTH 129 Precalculus (GE)	4
MTH 130 Calculus I with Applications (GE)	4
MTH 236 Calculus II with Applications (GE)	3
MTH 245 Linear Algebra	3
MTH 322 Advanced Mathematical Analysis	3
PHY 135 College Physics I (GE)	4
PHY 136 College Physics II	4
PHY 323 Electromagnetic Theory	3
ECO 321 Engineering Economics (GE)	3
The Arts (GE)	3
World Languages (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Liberal Arts and Sciences Electives	9

Electrical Engineering Technology	(65 credits)
EET 105 Introduction to Digital Electronics	2
EET 110 Computer Applications	2
EET 111 Electric Circuits I	4
EET 113 Electric Circuits II	4
EET 118 Semiconductor Devices and Circuits	4
EET 223 Digital Electronics	4
EET 224 Amplifiers	4
EET 225 Communications Electronics	4
EET 251 Microprocessors	3
EET 311 Network Analysis	4
EET 316 Digital Design	4
EET 317 Industrial Electronics	4
EET 327 Signal Processing	4
EET 418 Microprocessor Interfacing & Control	4
EET 420 Linear Systems & Controls	4
EET 450 Design Concepts**	2
EET 452W Design Project**	2
Technical Electives***	6
Total Credits:	**126-127**

*FYE 101 First Year Experience is required for all first time full time students

**EET 450 and EET 452W must be completed in residence at Farmingdale State College.

***Technical Electives must be selected from EET 414, EET 426, EET 440 or other courses in areas of student interest with Departmental approval.

Degree Type: BS
Total Required Credits: 126-127

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Facility Management Technology

The Bachelor of Science in Facility Management Technology program prepares students to lead, innovate, and manage the complex systems that support modern built environments across corporate, healthcare, education, government, and commercial real estate sectors. Students gain knowledge in building systems, energy management, project planning, and workplace technology integration. Coursework emphasizes strategic planning, risk management, and the use of emerging technologies to optimize facility performance. The curriculum also emphasizes communication, problem-solving, and leadership skills essential for managing diverse teams and stakeholders. Career paths for graduates include facility manager, operations director, sustainability coordinator, and building and grounds superintendent. The program is also offered in a traditional in-person format to accommodate diverse student learning needs.

This program is currently being offered in a traditional in-person format. Beginning with the Fall 2027 semester, it will also be offered as an on-line program to accommodate a range of student learning needs.

Program Outcomes

Graduates of the Facility Management Technology program will be able to:

1. Demonstrate leadership and technical competence in the maintenance and operation of buildings and grounds, including oversight of structural, mechanical, electrical, and energy systems, as well as personnel supervision, budgeting, and space planning.

2. Apply facility management technologies and practices, including HVAC systems, building automation, security and fire protection systems, and occupational and environmental health and safety, to analyze, solve, and manage facility operation and maintenance challenges.

3. Exhibit professional and ethical responsibility, including personal integrity, effective communication, cultural awareness, and a commitment to continuous improvement and lifelong learning in a diverse and evolving workplace.

Typical Employment Opportunities:

- Facility maintenance
- Facility management and operations
- Safety and Security operations
- Public Works
- Physical Plant
- Building & Grounds
- Energy management
- Building automation systems support

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing	3
ECO 321 Engineering Economics (GE)	3
The Arts (GE)	3
World Languages (GE)	3
World History and Global Awareness (GE) **OR**	
US History and Civic Engagement	3
Humanities (GE)	3
Natural Science with lab (GE)	8
PHY 135 Physics I	4
PHY 136 Physics II	4
MTH 110 Statistics (GE)	3
MTH 116 College Algebra	4
MTH 129 Precalculus	4
MTH 130 Calculus	4
Liberal Arts and Sciences Elective (any level)	3
Liberal Arts and Sciences Elective (300-level or above)	3

Required Courses	(60 credits)
BUS 101 Accounting I	3
BUS 102 Accounting II	3
BUS 109 Management Theories and Practices	3
IND 201 Introduction to Facility Management	3
IND 308 Occupational Safety	3
IND 309 Security and Fire Protection Systems	3
IND 310 Industrial Hygiene	3
IND 315 Facilities Planning	3
IND 321 MEP Systems Management	3
IND 402 Facility Maintenance Management	3
IND 405 Heating, Ventilating & Air Conditioning Systems	3
IND 406W Energy Management	3
IND 411 Capstone Project for Facility Management	3

IND 412 Computer Tools in Facility Management	3
MET 101 Introduction to Engineering Technology	2
MET 105L Technical Drawing and CAD	1
MET 212 Applied Fluid Mechanics	3
MET 314 Applied Thermodynamics	3
Technical Electives (any level) Choose from: AET, BCS, BUS, CON, EET, HOR, IND, MET	6
Technical Electives (300-level or above) Choose from: AET, BCS, BUS, CON, EET, HOR, IND, MET	3

Degree Type: BS
Total Required Credits: 121-122

*FYE 101 First Year Experience is required for all first time full time students

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses will be developed in accordance with the guiding principles and criteria outlined below. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Geographic Information Systems

Bachelor of Science Degree

This program is offered both online and in-person.

Bachelor of Science degree in Geographic Information Systems (GIS) - This is an applied degree in geography and the spatial sciences that aims to generate workforce-ready graduates who are well trained in the technology, theory, and application of geographic information systems. The GIS program provides students with critical thinking skills such as analyzing, synthesizing, visualizing and evaluating data by way of digital maps and/or map imagery to solve problems related to urban and regional design, marketing and industrial location, transportation, agriculture, forestry, environmental systems, engineering, epidemiology, emergency services, crime analysis and utilities.

Completion of the degree would count toward the educational requirement for GISP (GIS Professional) Certification.

Typical Employment Opportunities

- GIS Analyst
- Geospatial Intelligence Analyst
- Geospatial Application Developer
- Urban and Regional Design
- Agriculture Technology
- Natural Resources Analyst
- GIS Network Engineer
- Epidemiology
- Emergency Services
- Crime Analysis
- Utilities
- Local and National Government
- GIS Energy Analyst
- GIS Transportation and Logistics Analyst

Geographic Information Systems (BS) Program Outcomes:

- Graduates will utilize the scientific method and various informational and analytical tools for solving problems related to human and physical geography.
- Graduates will apply understanding of the importance of space and place in key issues facing contemporary society, combined with the ability use data to solve pressing problems in the environmental sciences, salesforce management, public health, public policy, etc.
- Graduates will debate, quantify, and qualify the interrelationships between human, physical, and biotic systems on the Earth's surface.
- Graduates will integrate spatial analysis into interdisciplinary research problems.
- Graduates will compose essays that: 1) cogently convey technical information retrieved through independent research; 2) rely on print and/or digital sources of a scholarly nature; and 3) are generally free of grammatical, spelling, punctuation and other errors.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(48 Credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
MTH 110 Statistics (GE)	3
US History and Civic Engagement(GE)	3
World History and Global Awareness (GE)	3
Humanities (GE)	3
The Arts (GE)	3
World Languages (GE)	3
Natural Sciences and Scientific Reasoning (GE)	3
Mathematics and Quantitative Reasoning (GE)	3
Liberal Arts & Sciences Technical Electives	6
Liberal Arts & Sciences Electives	6
Oral Communication	3
Free Electives	3

Required Lower Division	(16 Credits)
GIS 101 The Digital Earth **OR** GEO 110 Maps and Map Analysis (GE)	3
GIS 231 Geospatial Research Methods	3
GEO 211 The World and Its Peoples (GE)	3
GIS 222 Geovisualization I	4
GEO 201 Physical Geography OR	
GEO 222 Human Geography	3

Required: Upper Division	(57 credits)
GIS 321 Geovisualization II	3
GIS 331 Spatial Analysis I	3
GIS 341 Geoprocessing I	3
GIS 342 Geodatabase Management	3
GIS 391 GIS Practicum	3
GIS 491 Senior Seminar **OR** GIS 492 Internship	3
Technical Electives 300-400 Level	18
Free Electives 300-400 Level	12
300-400 Level Liberal & Science Electives	9
Total Credits	120-122

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 121-122

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes:

Liberal Arts Technical Electives
GEO 201 Physical Geography
GEO 222 Human Geography
GEO 231 Europe and Its Peoples
GEO 232 North America and its Peoples
GEO 290 Topics in Geography
GEO 311 Geography of Long Island
GEO 355 Geography of Tourism
GIS 105 The Art of Maps
GIS 201 Mathematical Principles in Geography
GIS 222 Geovisualization I

Technical Electives 300-400 Level
GEO 311 Geography of Long Island
GEO 323 Urban Geography
GEO 325 Globalization and Sustainability
GEO 330 Environmental Interactions
GEO 335 Food Geographies
GEO 340 Geography and Imagination
GEO 350 Place Branding
GEO 355 Geography of Tourism
GEO 370 The Anthropocene Epoch
GEO 390 Special Topics
GIS 301 GIScience
GIS 302 Remote Sensing
GIS 303L GIScience Lab
GIS 321 Geovisualization II
GIS 322 Geovisualization III
GIS 332 Spatial Analysis II
GIS 351 GIS and Public Health
GIS 352 GIS and Municipal Government
GIS 353 GIS and Public Education
GIS 355 GIS for Ecology
GIS 431 Spatial Analysis III
GIS 432 Location Modeling and Analysis
GIS 433 Mapping Applications of Drones
GIS 441 Geoprocessing II
HIS 306 Transformation of America
HIS 310 Technology and Society Russia-1917-Present
HIS 335 Gender and Technology in Historical Perspectives
HIS 342 The History of Television
PHY 304 Big Data and Society
POL 370 International Relations
POL 371 Geopolitics
POL 320 Internet Politics
SOC 326 Visual Sociology

Global Business Management

Bachelor of Science Degree

The Bachelor of Science in Global Business Management is designed to prepare students for the rapidly growing and evolving field of global business. In today's increasingly interlinked world economy, virtually all business involves international human resources, management, marketing, supply chain management, and finance. In addition, information technology and legal systems must be understood and coordinated on a global basis. The Global Business Management program, through required and a wide array of elective courses allows students to complete degree requirements focusing on key aspects of international business. Students in the program will also develop an appreciation and understanding of other cultures through foreign language and area studies courses, which allow them to explore countries and languages of particular interest. As part of the Global Business program, study at campuses outside the United States is strongly encouraged.

Typical Employment Opportunities

- International Marketing/Sales/Advertising
- Management of Multinational Corporations (MNCs)
- International Human Resource Management
- Global Strategic Planning Management
- Product/Service Development
- Product/Brand Management
- Procurement/Purchasing Management
- Quality Management
- International Supply Chain Management
- Strategic Sourcing
- International Logistics
- Warehouse and Distribution Center Management
- Site and Outsourcing Management
- Production Management in Manufacturing and Service Enterprises

Global Business Management (BS) Program Outcomes:

- Graduates will be effective communicators and possess critical thinking skills necessary to analyze and solve problems in a global context.
- Graduates will have an appreciation of multiple cultures and learn to work effectively in a multi-cultural and diverse environment in different areas of the world.
- Graduates will have an understanding of global financial theories and systems, global markets, and legal issues in an international environment.
- Graduates will have the ability to work well in global teams and understand the social context of businesses in a global society.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition 1: College Writing (GE)	3
EGL 102 Composition 2: Writing About Literature	3
Communication- Oral (GE)	3
Humanities (GE)	3

The Arts (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
MTH 117 Precalculus with Applications or MTH 129 Precalculus (GE)	4
ECO 156 Macroeconomics (GE)	3
ECO 157 Microeconomics	3
Natural Sciences and Scientific Reasoning (GE)	3
World Languages II (GE)	3
Area Studies or Foreign Language by advisement	6
Math 110 Statistics (GE)	3
Politics Elective by advisement	3
PHI 207 Business Ethics	3
Economics elective by advisement	3
Arts & Sciences electives	9

Required Major Courses	(51 credits)
BUS 101 Accounting I	3
BUS 102 Accounting II	3
BUS 109 Management Theories & Practices	3
BUS 131 Marketing Principles	3
BUS 202 Business Law I	3
BUS 280 International Business	3
BUS 300 Operations Management	3
BUS 307 Corporate Finance	3
BUS 320 International Marketing	3
BUS 321 International Law	3
BUS 322 International Management	3
BUS 366 International Human Resource Management	3
BUS 409 Strategic Management	3
BUS 473 Global Finance	3
BUS 494 Global Strategy	3
BCS 102 Computer Concepts & Applications	3
BCS 300 Management Information Systems	3
Electives	**(9 credits)**
Global Business Elective	6
Free elective	3

Total Credits:	**121-122**

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 121-122

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Health Promotion and Wellness

Bachelor of Science Degree

The Bachelor of Science degree in Health Promotion and Wellness through the Theresa Santmann School of Health Sciences is ideal for students who want an interdisciplinary approach to helping others achieve healthy lifestyles. Students will develop a strong foundation in administrative and technical skills to successfully implement health promotion and wellness programs. The pursuit of wellness in all dimensions of life - social, physical, emotional, occupational, intellectual, environmental and spiritual - is emphasized throughout the curriculum.

Graduates from the BS in Health Promotion and Wellness will acquire leadership, management, and collaborative skills to apply a multidisciplinary approach to the health promotion planning process. Graduates can work in local, regional and national settings and are also prepared for graduate-level programs in numerous health-related areas through the option of two tracks—Standard track or Exercise Professions track.

The Exercise Professions Track is designed for students aspiring to enter the variety of exercise professions and related fields. Additionally, graduation from this program will leave students well-prepared for advanced studies within health and exercise science fields while also satisfying many of the prerequisites for related graduate programs.

Typical Employment Opportunities

- Public Health Educator
- Health Coach
- Corporate Wellness Coordinator
- Director of Fitness / Wellness
- Community Health Director
- Health Services Manager

Health Promotion and Wellness (BS) Program Outcomes:

- Graduates will use leadership, management, and collaborative skills to apply a multidisciplinary approach to the health promotion planning process through the incorporation of health enhancement interventions. (Professional/Leadership)
- Graduates will serve as a health promotion resource by effectively promoting or advocating for healthy lifestyles and the profession in oral and written form through any variety of sources. (Communication/Marketing)
- Graduates will apply knowledge and experience from course work in the arts, science, and humanities into the field of Health Promotion and Wellness. (Knowledge)
- Graduates will demonstrate proficiency at interpreting one-on-one and group health assessments to achieve improved quality of life for themselves and the people they educate. (Critical Thinking)

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

The following courses are required for ALL students in the Health, Promotion and Wellness program:

Liberal Arts & Sciences	(30 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
PSY 101 Introduction to Psychology (GE)	3
Humanities (GE)	3
World Languages I (GE)	3
The Arts (GE)	3
SPE 202 Interpersonal Communications **OR** SPE 330 Professional and Technical Speech	3
MTH 110 Statistics (GE)	3
NTR 110 Principles of Nutrition (GE)	3
Lower Division Courses	**(12 credits)**
HPW 101 Perspectives on Health & Wellness	3
HPW 200 Lifespan Health & Wellness	3
HPW 225 Fitness Health & Coaching	3
HPW 245 Ethics in the Health Professions OR BIO 240 Bioethics	3
Upper Division Courses	**(27 credits)**
NTR 305 Weight Management & Obesity	3
NTR 365 Sports Nutrition	3
HPW 325 Mental Health Wellness	3
HPW 410 Seminar in Health Promotion	3
HPW 420 Addictive Behaviors	3
HPW 425 Sports & Exercise Physiology	3
HPW 430W Research Methods	3
HPW 440 Holistic and Integrative Health	3
HPW 470 Healthy America	3

The following courses are required for students completing the *Standard Track* in the Health, Promotion and Wellness program:

Liberal Arts & Sciences	(26 credits)
PSY 240 Health Psychology	3
BUS 131 Marketing Principles **OR**ECO 156 Principles of Economics (Macro) **OR** SMT 225 Sport Marketing	3
SOC 122 Introduction to Sociology	3
SOC 228 Society and Health	3
CHM 124 Principles of Chemistry	4
BIO 166 Human Anatomy/ Physiology **OR** BIO 123 Human Body in Health and Disease **OR** BIO 130 Biological Principles I	4
Liberal Arts and Sciences Electives	6
Lower Division Courses	**(3 credits)**
Technical Elective I	3
Upper Division Courses	**(26 credits)**
SOC 303 Sociology of Work & Occupations	3
BIO 318 Medical Microbiology **OR** NTR 330 Food Microbiology	4
HPW 300 Evaluation of Health Promotion	3
HPW 330 Concepts in Public Health	3
HPW 400 Community Health	3
HPW 435 Healthcare Administration	3
HPW 450 Internship (Applied Learning) **OR** HPW 405 Exercise & Movement Science **OR** HPW 415 Exercise Testing & Programming	4
Technical Elective II (300 level or higher)	3

The following courses are required for students completing the *Exercise Professions* track in the Health, Promotion and Wellness program:

Liberal Arts and Sciences	(35-36 credits)
MTH 129 Precalculus	4
PHY 135 College Physics I	4
PHY 136 College Physics II	4
CHM 152 General Chemistry Principles I	4
CHM 153 General Chemistry Principles II	4
BIO 130 Biological Principles	4
BIO 170 Human Anatomy & Physiology I	4
BIO 171 Human Anatomy & Physiology II	4
PSY 253 Lifespan Development **OR**	3
BIO 131 Biological Principles II	4

Upper Division Courses	(18 credits)
HPW 310 Sport & Exercise Psychology	3
HPW 320 Strength & Conditioning	3
HPW 405 Exercise & Movement Science	4
HPW 415 Exercise Testing & Programming	4
HPW 450 Internship (Applied Learning)	4

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits:

- Standard Track 124-125
- Exercise Professions Track 122-124

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Technical Elective I
BUS 109 Management Theories & Practices
HPW 105 Medical Terminology
HPW 230 Health and Cannabis Usage
PED 226 Introduction to Sports Officiating
SMT 110 Introduction to Sport Management

Technical Elective II
HPW 310 Sport & Exercise Psychology
HPW 320 Strength and Conditioning
PSY 315 Abnormal Psychology
SOC 309 Sport in Society
SOC 350 Global Social Change
SOC 360 Sociology Theory
SOC 366 Sociological Research Methods

Horticultural Technology Management

Bachelor of Technology Degree

The Horticultural Technology Management program is designed to produce versatile graduates prepared for a wide range of entry-level and middle management positions in the extensive green industry on Long Island and beyond. The horticultural green industry is a diverse conglomerate of growers, retailers, designers, installers, and maintenance personnel serving public and private gardens, homeowners, golf courses, parks and recreational facilities.

Through a selection of required and elective courses in the concentration, students will become progressively more specialized and advanced in their chosen area of interest. The Horticultural Technology Management program has a common business and horticulture core which serves as the foundation for the two concentrations in the program.

The two major concentrations are: General Horticulture and Landscape Development. Each concentration offers a sequence of courses that build upon a strong foundation in the discipline and draws from a multi-disciplinary array of course work in Horticulture, Business and the Arts and Sciences.

The broad scope of courses allows students to experience various phases of horticultural operations as well as business procedures and practices. The mix of horticulture and business maximizes their employment opportunities and career choices. Graduates of this program may develop careers owning and operating their own businesses, propagating plants, designing interior and exterior landscapes, managing golf courses, estates, public gardens and garden centers.

Horticultural Technology Management (BT) Program Outcomes:

This major has two concentrations: Landscape Development and General Horticulture.

General Horticulture (BT) Program Outcomes:

- Graduates will receive a strong foundation in science and master skillsets utilizing traditional and cutting edge techniques.
- Graduates will demonstrate diverse knowledge and skills required to perform professionally in today's complex multi-disciplinary environment.
- Graduates will exhibit the knowledge necessary to understand horticulture from an historical perspective, as well as current and future trends of industry.
- Graduates will have learned specific professional skills addressing the science and art of growing and utilizing cultivated plants to beautify, enhance and restore private and public landscapes, and become familiar with ever-changing industry procedures, practices and techniques.
- Graduates will have learned specific professional skills addressing resume development, self-promotion and job search skills in order to successfully compete in the current job market.

Landscape Development (BT) Program Outcomes:

- Graduates will receive a strong foundation in design, and master skillsets utilizing traditional and cutting digital techniques.
- Graduates will demonstrate diverse knowledge and skills required to perform professionally in today's design environment.
- Graduates will exhibit the knowledge necessary to understand design from an historical perspective, as well as current and future trends of industry.
- Graduates will have learned specific professional skills addressing resume development, self-promotion, job search skills, industry procedures and practices and presentation techniques.
- Graduates will have created a portfolio of work, which will meet industry demands in order to successfully compete in the current job market.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences:	(42-43 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Communication - Oral: SPE 130 or SPE 202 (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Mathematics (GE)	3
The Arts (GE)	3
Social Sciences (GE)	3

General Education elective (GE)	3
BIO 192 Botany (GE)	4
BIO 198 Entomology (GE) OR BIO 290 Entomology II	3-4
Students must select 8 credits from:	
BIO 353/BIO 354L Essentials of Plant Pathology	4
BIO 355 Ecological Topics **OR** BIO 330 Principles of Ecology	4
CHM 124 Principles of Chemistry	4

Required: BUS/BCS/IND Courses	**(21 credits)**
BCS 102 Computer Concepts & Applications	3
BUS 109 Management Theories and Practices	3
BUS 131 Marketing Principles	3
BUS 141 Contemporary Business Communications	3
BUS 230 Environmental Law **OR**	
BUS 202 Business Law I	3
BUS/IND/BCS Electives (300 level or above) **OR**	
RAM 303 Research Experience	3
Required: Horticulture Courses	**(25 credits)**
HOR 110 Horticulture I	3
HOR 111 Horticulture II Growth and Development of Cultivated Plants	3
HOR 112 Soils: The Foundation of Life	3
HOR 127 Horticultural Seminar	1
HOR 131 Landscape Drafting I	3
HOR 204 Herbaceous Plants II	3
HOR 211 Woody Plants I	3
HOR 212 Woody Plants II	3
HOR 340 The Sustainable Garden	3

Writing Intensive: Students must choose one of the following:	**(3 credits)**
HOR 320W Public Garden Management **OR**	
HOR 350W The History of Garden Design & Landscape Architecture	3

Concentration Requirements (choose one):

General Horticulture:
The concentration in General Horticulture provides a generalized study of horticulture and business. Through a wide range of electives, students can develop specific areas of expertise. The program of study includes training in plant identification, botany, entomology, soil science, business, and computer business applications. Students may elect additional courses in plant propagation, landscape construction, commercial floral design, arboriculture, ecology, and turf and grass management. Laboratory hours provide students valuable "hands-on" experience in the College's extensive greenhouses and ornamental gardens.

General Horticulture Concentration:	**(32 credits)**
HOR 200 Herbaceous Plants II	3
HOR 200 +- Level Electives	21
HOR 311 Woody Plants III: Advanced Topics	3
HOR 465 Practicum Prep for General Horticulture	1
HOR 475 Horticulture Practicum	4

Landscape Development:
The focus of this specialization is to prepare students for business in professional landscape contracting and landscape design. The student is trained in landscape drafting, landscape graphics, landscape plans, landscape construction, landscape surveying, computer-aided design, plant materials, professional practices, business, and computer business applications.

Landscape Development Concentration:	**(32 credits)**
HOR 133 Landscape Drafting II	3
HOR 207 Landscape Plans I	3
HOR 219 Landscape Construction	3
HOR 220 Landscape Plans II	3
HOR 370 Landscape Professional Practices	3
HOR 371 Landscape CAD I	3
HOR 372 Site Engineering I	3
HOR Electives (200 level or above)	6
HOR 464 Capstone Prep for Urban Design	1
HOR 474 Design Capstone Project	4

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BT
Total Required Credits: 123-125

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

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may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Interaction Design (IxD)

Bachelor of Science Degree

The Interaction Design ("IXD") Baccalaureate Degree program focuses on human behavior and user experience in designing and developing mobile applications, responsive web design and user experiences, service design, and social networks way-finding projects, brick and mortar and online retailing, exhibit design and more. This program encourages a culture where students learn the value of collaboration, vision, risk-taking, discovery, entrepreneurship, passion, social responsibility, and play. Students will immerse themselves in an environment that focuses on the practical application of user-centered, needs-based design solutions built upon vital research and development, observation, and prototyping.

Interaction Designers can influence the future development of products, systems, and services in fields as diverse as education, healthcare, banking, business, and more. The program graduates will enter into related employment such as mobile interface design, web design, user experience design (UX), user interaction design (UI), human-computer interaction, and more. For additional information, or to schedule an interview and tour of our facilities, please contact the Visual Communications Department at 934-420-2181.

Typical Employment Opportunities

- Application Development
- Data Visualization
- Immersive Experience
- Interactive Installation
- Kiosk Design and Development
- Museum Experience Design
- User Experience Design (UX)
- User Interface Design (UI)
- Web Development and Design

Interaction Design (IXD) (BS) Program Outcomes

- Graduates will develop and build upon strong foundational design skills through exploration and experimentation.
- Graduates will master skill sets in traditional and digital techniques to design successful interactive experiences.
- Graduates will exhibit an understanding of graphic design and interaction design from both an historical perspective as well as from a contemporary perspective with current and future trends of industry being paramount.
- Graduates will build professional skills including resume development, self promotion, job search, industry procedures and practices and presentation techniques.
- Graduates will present a portfolio of work in order to successfully compete in the current job market and to apply for graduate study. In this portfolio, students will demonstrate knowledge of current technical and conceptual interaction design standards.

Qualifications for the Interaction Design Program

To be considered for admission to the Interaction Design Program, you must meet the following qualifications:

- A freshman high school GPA of 80 or higher
- A transfer GPA of 2.5 or higher
- One high school or college level art class
- A passing score on the Interaction Design Program aptitude test

In addition to these qualifications, we also look for applicants who demonstrate creativity, problem-solving skills, and strong communication skills. If you are interested in pursuing a career in interaction design, we encourage you to apply to our program.

Farmingdale State College is an accredited institutional member of the National Association of Schools of Art and Design.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(39 Credits)
EGL 101 Composition I: College Writing (GE)	3
Mathematics and Quantitative Reasoning (Statistics Preferred) (GE)	3
EGL 102 Composition II: Writing About Literature	3
ART 200 History of Graphic Design (GE)	3
Communication- Oral (GE)	3
SOC 122 Introductory Sociology (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
ART 201 Survey of Art History: Prehistoric Times through Middle Ages (GE) OR ART 202 Survey of Art History: Early Renaissance to the Present (GE)	3
PSY 101 Introduction to Psychology (GE)	3
Natural Sciences and Scientific Reasoning (GE)	3
ART 203 History of Interaction Design (GE)	3
300 + LAS Electives	6

Support Courses	(18 credits)
BCS 130 Website Development I	3
BCS 240 Website Development II	3
PSY 328 Introduction to Human Factors	3
Free Electives	9

Interaction Design Core	(63 credits)
VIS 110 Drawing I	3
VIS 112 Two-Dimensional Design	3
VIS 115 Three-Dimensional Design	3
VIS 116 Digital Media and Methods	3
VIS 122 Typography I	3
VIS 225 Photography I	3
VIS 318 Four-Dimensional Design	3
IXD 210 Typography for Interaction	3
IXD 212 Interaction Design I-Foundation	3

IXD 310 Interaction Design II- User Interface	3
IXD 312 Research Strategies	3
IXD 320 Interaction Design III- User Experience	3
IXD 322 Prototype Tools	3
IXD 330 Design for Social Change	3
IXD 410 Interaction Design IV- Advanced Interaction Design	3
IXD 412 Special Topics Studio	3
VIS 340 Industry Preparation	3
VIS 416W Senior Project I	3
VIS 426W Senior Project II	3
IXD 414 Design and Play Mechanics	3
VIS 418 Portfolio	3
Total Credits	120-121

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 120-121

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Manufacturing Engineering Technology

Bachelor of Science Degree

The Bachelor of Science degree program in Manufacturing Engineering Technology is designed to provide students with a foundation of knowledge and hands-on experience that is required and utilized by the industry. The program offers traditional courses such as Statics, Strength of Materials, and Material Science providing graduates with a solid foundation of the field. The program also offers numerous technology-based and practical courses such as Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), Computer Numeric Control (CNC) Machining, Tooling for Composites, Electronic Packaging Applications, Electromechanical Control Systems, Robotics, and Statistical Quality Control providing students with a well-balanced and needed background in Manufacturing Engineering Technology. These technology-based courses are delivered through our state-of-the-art laboratories. Students also benefit from the required senior project that provides the students with a valuable integrating capstone experience. In addition, this program is designed to allow students to extend their knowledge and skills in other areas such as Automotive, Business, Construction, Electrical, Facility, and Mechanical to support different aspects of manufacturing.

This program is ideal for high school graduates and Mechanical Engineering Technology associate degree graduates who wish to enter careers in manufacturing process and systems design, operations, quality, continuous improvement, lean manufacturing, and sustainability.

This is a four-year program. Students may matriculate on a full-time or part-time basis. This program is accredited by the Engineering Technology Accreditation Commission of ABET.

Typical Employment Opportunities

- Manufacturing Engineer
- Product Design Engineer
- Mechanical System Engineer
- Process Design Engineer
- Technical Writer
- Field Service Engineer
- Equipment Testing Engineer
- Quality Control (QC) Engineer
- Project Engineer
- CNC Programmer

Manufacturing Engineering Technology (BS) Program Educational Objectives:

After completing the program, graduates will:

- Find rewarding jobs in Manufacturing Engineering Technology, or related fields
- Pursue further education or professional certifications
- Take on leadership roles in their field
- Get involved in professional organizations while engaging in lifelong learning to stay current with evolving technologies

Student Learning Outcomes

- an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
- an ability to design systems, components or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
- an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
- an ability to function effectively as a member as well as leader on technical teams.

ABET Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(60 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing (GE)	3
The Arts (GE)	3
World Languages (GE)	3
ECO 321 Engineering Economics (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Humanities (GE)	3
Natural Science**	8
PHY 135 College Physics I (GE)	4
PHY 136 College Physics II (GE)	4
Math Elective (200-level or higher)	3

MTH 110 Statistics (GE)	3
MTH 129 Precalculus	4
MTH 130 Calculus with Applications	4
MTH 236 Calculus II with Applications	3
Liberal Arts & Sciences elective (300-level or higher)	3

Support Courses	**(3 credits)**
BUS 300 Operations Management	3
Mechanical/ Manufacturing Courses	**(63 credits)**
MET 101 Introduction to Mechanical Engineering Technology	2
MET 105L Technical Drawing and CAD	1
MET 117 Manufacturing Processes	2
MET 127 Advanced Manufacturing Processes	2
MET 150 Solid Modeling	2
MET 201 Statics	3
MET 202 Mechatronic Systems	3
MET 205 Material Science	3
MET 206 Strength of Materials	3
MET 230 Electrical Principles	3
MET 252 Quality Control (Metrology)	3
MET 303 Tool Design	3
MET 307 Electromechanical Control Systems	3
MET 351 Computer Aided Manufacturing(CAM)	3
MET 406 Electronic Packaging Applications	3
MET 409 Statistical Quality Control(SQC)	3
MET 410W Senior Project***	3
MET 415 Robotics	3
MET 417 Automation and Control Systems	3
Technical Electives****	12
Total Credits:	126-127

*FYE 101 First Year Experience is required for all first time full time students

** For Natural Science Elective, at least one chemistry course (CHM 124 or higher)

***MET 410W Senior Project must be completed in residence at Farmingdale State College and cannot be satisfied by transfer credits of any kind

****(AET,AVN,BCS,BUS,CON,EET,ENV,IND,MET,WTT courses or RAM 303 in consultation with department chair). At least 9 credits must be at 300-level or higher.

Degree Type: BS
Total Required Credits: 126-127

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Mechanical Engineering Technology

Bachelor of Science Degree

The Bachelor of Science degree program in Mechanical Engineering Technology is designed to provide students with a foundation of knowledge and hands-on experience that are required and utilized by the industry. The program offers traditional courses such as Statics, Dynamics, Strength of Materials, Material Science, Machine & Product Design, Applied Fluid Mechanics, Applied Thermodynamics, and Applied Heat Transfer providing graduates with a solid foundation of the field. The program also offers numerous technology-based and practical courses such as Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), Computer Aided Engineering (CAE), Computer Numeric Control (CNC) Machining, Quality Control, Electronic Packaging Applications, Electromechanical Control Systems, Robotics, and HVAC Systems providing students with a well-balanced and needed background in Mechanical Engineering Technology. These technology based courses are delivered through our state-of-the-art laboratories. Students also benefit from the required senior project that provides the students with valuable integrating capstone experience.

This program is ideal for high school graduates and Mechanical Engineering Technology associate degree graduates who wish to enter careers in the design, installation, manufacturing, testing, technical sales, maintenance, HVAC, and other endeavors typically associated with mechanical components and systems.

This is a four-year program. Students may matriculate on a full-time or part-time basis. This program is accredited by the Engineering Technology Accreditation Commission of ABET.

Typical Employment Opportunities

- Mechanical Engineer
- Product Design Engineer
- Mechanical System Engineer
- Process Design Engineer
- HVAC System Engineer
- Technical Writer
- Field Service Engineer
- Manufacturing Engineer
- Project Engineer
- Equipment Testing Engineer

Mechanical Engineering Technology (BS) Program Educational Objectives:

After completing the program, graduates will:

- Find rewarding jobs in Mechanical Engineering Technology, or related fields
- Pursue further education or professional certifications
- Take on leadership roles in their field

- Get involved in professional organizations while engaging in lifelong learning to stay current with evolving technologies

Student Learning Outcomes

- an ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
- an ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
- an ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes; and
- an ability to function effectively as a member as well as a leader on technical teams.

ABET Data

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(60 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing (GE)	3
The Arts (GE)	3
World Languages (GE)	3
ECO 321 Engineering Economics (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Humanities (GE)	3
Natural Sciences and Scientific Reasoning (GE)	8
PHY 135 College Physics I (GE)	4
PHY 136 College Physics II (GE)	4
MTH 110 Statistics	3
MTH 129 Precalculus (GE)	4
MTH 130 Calculus with Applications	4
MTH 236 Calculus II with Applications	3
MTH 245 Linear Algebra	3
Liberal Arts and Sciences Elective (300-level or higher)	3

* For Natural Science Elective, at least one chemistry course (CHM 124 or higher).

Support Courses	(3 credits)
IND 405 HVAC Systems	3

Mechanical/ Manufacturing Courses	(63 credits)
MET 101 Introduction to Mechanical Engineering Technology	2
MET 105L Technical Drawing and CAD	1
MET 117 Manufacturing Processes	2
MET 127 Advanced Manufacturing Processes	2
MET 150 Solid Modeling	2
MET 201 Statics	3
MET 205 Material Science	3
MET 206 Strength of Materials	3
MET 212 Applied Fluid Mechanics	3
MET 230 Electrical Principles	3
MET 252 Quality Control (Metrology)	3
MET 302 Dynamics	3
MET 303 Tool Design	3
MET 307 Electromechanical Control Systems	3
MET 308 Machine and Product Design	3
MET 314 Applied Thermodynamics	3
MET 351 Computer Aided Manufacturing (CAM)	3
MET 400 Computer Aided Engineering	3
MET 410W Senior Project-Writing Intensive**	3
MET 411 Applied Heat Transfer	3
MET 415 Robotics	3
Technical Elective***	3
MET Select Elective****	3
Total Credits	126-127

*FYE 101 First Year Experience is required for all first time full time students

**MET 410W Senior Project must be completed in residence at Farmingdale State College and cannot be satisfied by transfer credit of any kind.

*** Technical Electives must be selected from AET, IND, MET courses or RAM 303 in consultation with department chair.

****MET Select Elective must be selected from MET 301, MET 309, MET 406, MET 417, or IND 406W.

Degree Type: BS
Total Required Credits: 126-127

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and

Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

1. Students that repeat a major required course three times and receive three failing grades (F's) in that course will be dismissed from the MET program

Medical Laboratory Science

Bachelor of Science Degree

The BS program in Medical Laboratory Science prepares graduates for a wide range of positions in the clinical laboratory profession. The curriculum includes development of the theoretical knowledge, technical skills, and problem-solving abilities necessary for entry into practice at the technologist level. While enrolled in the program, students experience a supportive learning environment in the Medical Laboratory Science campus laboratories, where the theoretical background introduced during lecture sessions is linked to clinical laboratory practice through the development of technical proficiency. The educational experience includes clinical internships at local affiliated clinical laboratories in which the students are prepared for the transition into the clinical laboratory workplace.

The BS in Medical Laboratory Science is specifically designed to meet the educational requirements for licensure as a Clinical Laboratory Technologist in New York State. As a result, graduates of the program will have the educational background that prepares them for the NYS licensure examination and will be eligible to apply for NYS licensure, a necessity to work in a clinical laboratory in New York State. The BS in Medical Laboratory Science is also designed to meet the accreditation standards outlined by the National Accrediting Agency for Clinical Laboratory Science (NAACLS). Accreditation of the BS program was awarded in 2013 so that graduates of the program are eligible to take the national certification examination offered by the American Society for Clinical Pathology Board of Certification (ASCP-BOC). Passing of this certification examination designates the graduate as MLS (ASCP). Traditionally, both program accreditation and graduate certification eligibility have been necessary components of programs in clinical laboratory science, and the achievement of certification is often a requirement for employment within the field throughout the United States.

Off-Campus Clinical Internships
Matriculated Medical Laboratory Science students may be required to provide proof of citizenship or immigration status to participate in clinical internships at certain off-campus clinical affiliate laboratories. All clinical internship courses must be completed to meet graduation requirements.

Licensure and Certification Requirements
Students who have previously been convicted of a felony are advised that their prior criminal history may impede their ability to complete the requirements of certain academic programs and/or to meet licensure requirements for certain professions. Students who have concerns about such matters are advised to contact the department chair.

It is recommended to contact both the New York State Office of the Professions and the American Society for Clinical Pathology Board of Certification (ASCP-BOC) for information regarding citizenship or immigration status and licensure/certification eligibility.

All matriculated students must provide evidence of appropriate immunizations, as well as titers for measles, mumps, rubella, varicella, and Hepatitis B. It is strongly recommended that students who test negative for Hepatitis B receive the appropriate vaccine. A Mantoux test for tuberculosis is required on a yearly basis during program enrollment. Each student is also required to participate in a liability insurance policy provided by the college which will afford malpractice coverage during the time enrolled in the MLS curriculum. Students are responsible for providing their own transportation to and from the clinical sites. A laboratory fee that covers a lab coat, personal protective equipment, and other general supplies for use during laboratory sessions will be collected from students enrolled in all laboratory courses offered in the MLS department.

Students enrolled in the MLS program will have the opportunity to participate in the MLS Club on campus.

Please refer to the Safety and Technical Standards in the front section of the College catalog.

Typical Employment Opportunities

Graduates may obtain employment as medical laboratory scientists/clinical laboratory technologists in hospitals, private clinical laboratories, physician office laboratories, research and industry laboratories, and in the sales, development and technical support of clinical laboratory equipment and supplies.

Medical Laboratory Science (BS) Program Outcomes:

- Graduates will be prepared with the knowledge and technical skills to obtain a NYS license and national certification at the technologist level of practice.
- Graduates will be proficient in performing the full range of clinical laboratory tests in areas such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, molecular, and other emerging diagnostics.
- Graduates will be prepared to play a role in the development and evaluation of test systems and interpretive algorithms.
- Graduates will have diverse responsibilities in areas of analysis and clinical decision-making, regulatory compliance with applicable regulations, education, and quality assurance/performance improvement wherever laboratory testing is researched, developed or performed
- Graduates will possess basic knowledge, skills, and relevant experiences in: Communications to enable consultative interactions with members of the healthcare team, external relations, customer service and patient education; Financial, operations, marketing, and human resource management of the clinical laboratory to enable cost-effective, high-quality, value-added laboratory services; Information management to enable effective, timely, accurate, and cost-effective reporting of laboratory-generated information, and; Research design/practice sufficient to evaluate published studies as an informed consumer.

This program is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS), 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, www.naacls.org

NYS Mandatory Licensure Disclosure Statement

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(64-68 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
BIO 130 Principles of Biology (GE)	4
BIO 166 Anatomy & Physiology (GE)**	4
BIO 348/349 Cell Biology with Laboratory	4
BIO 441 Molecular Biology	5
CHM 152 General Chemistry I	4
CHM 153 General Chemistry II	4
CHM 260 Fundamentals of Organic Chemistry	4
CHM 380 Biochemistry	4
MTH 110 Statistics (GE)	3

MTH 117 Precalculus with Applications	4
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Social Sciences (GE)	3
The Arts (GE)	3
Communication- Written and Oral (GE)	3
World Languages (GE)	3
Humanities (GE)	3

Required: Medical Laboratory Science	**(58 credits)**
MLS 105 Medical Laboratory Techniques	2
MLS 227 Immunology and Serology	4
MLS 236 Histological Techniques****	1
MLS 320 Hematology I	4
MLS 325W Laboratory Management & Informatics	3
MLS 330 Immunohematology I	4
MLS 340 Clinical Chemistry I	4
MLS 350 Clinical Microbiology I	4
MLS 351 Clinical Microbiology II	4
MLS 420 Hematology II	4
MLS 421 Molecular Pathology	3
MLS 425 Laboratory Research & Education	3
MLS 430 Immunohematology II	3
MLS 440 Clinical Chemistry II	2
MLS 450 Clinical Microbiology III	3
MLS 460L Medical Laboratory Science Capstone***	1
MLS 483 Practicum in Molecular Pathology****	1
MLS 491 Immunohematology Practicum****	2
MLS 492 Clinical Chemistry & Serology Practicum****	2
MLS 493 Hematology & Urinalysis Practicum****	2
MLS 494 Microbiology Practicum****	2
Total Credits:	**122-127**

The grade of "C" or better is required in all courses designated "MLS" as well as all science and math courses.

*FYE 101 First Year Experience is required for all first time full time students
**BIO 170/171 combination may be substituted for BIO 166

***MLS 460 MLS Capstone must be completed in residence at Farmingdale State College

****Courses for which there is no prior learning credit:
MLS 236 Histology Practicum
MLS 483 Molecular Practicum
MLS 491 Immunohematology Practicum
MLS 492 Chemistry Practicum
MLS 493 Hematology Practicum
MLS 494 Clinical Microbiology Practicum

Degree Type: BS
Total Required Credits: 126-127

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Nursing

Bachelor of Science Degree

The Nursing program prepares students for entry into the profession of Nursing. Upon graduation, students receive the Bachelor of Science degree with a major in Nursing and are eligible to take the National Council of State Board Licensing Exam for RNs (NCLEX-RN).

The curriculum will prepare graduates to provide professional nursing skills to individuals, families and groups in a variety of structured and unstructured healthcare settings, as well as the leadership skills needed to supervise nursing care delivered in community settings. The curriculum offers a balance of courses in general education and nursing. The students are provided with the theoretical knowledge and clinical practice needed to administer care for individuals throughout the life cycle. Graduates are prepared as beginning practitioners to help address the regional need for nurses. Learning experiences take place in the classroom, College nursing laboratory and in a variety of clinical settings. All students are assisted in the development of their potential with guidance offered by faculty who possess broad nursing experience and academic preparation in the field. Students participate in the Student Nurse Association and have opportunities to volunteer through the Department's Student Nurse Civic Engagement Program.

Advanced Standing status is available.

(All applications submitted for the program by December 15 receive equal consideration.)

Clinical Rotations
Matriculated nursing students must provide proof of citizenship or lawful immigration status to participate in certain clinical rotations. Students who are unable to complete clinical placements may not be able to fulfill graduation requirements or qualify for licensure.

Licensure and Certification Requirements
To apply for licensure as a Registered Professional Nurse (RN) in New York State, applicants must be either a United States citizen or an individual lawfully admitted for permanent residence in the United States.

Please visit the NYS Office of the Professions for additional information.

The baccalaureate degree in nursing programs at Farmingdale State College, SUNY is accredited by the Commission on Collegiate Nursing Education (CCNE). CCNE is located at 655 K Street NW, Suite 750, Washington DC 20001; phone 202-887-6791 and registered and accredited by the New York State Education Department Office of the Professions.

Typical Employment Opportunities

First level nursing positions in hospitals, home health agencies, long-term facilities, and primary and preventive care throughout the community.

Nursing (BS) Program Goals:

- Contribute to meeting current and future health care needs of diverse populations of the region by educating students to provide safe, evidence-based, and patient-centered professional nursing services that reflect ethical clinical judgment and interprofessional collaboration in varied settings.
- Provide a quality program in nursing education including, activities, and service programs that are supportive of the learning needs of diverse students so that they may accomplish their educational goals and encourage lifelong learning.
- Use health care technologies, information systems, and technological innovations to create stimulating environments that support and enrich learning and prepare graduates for changes in the health care environment.
- Provide an environment that supports academic and teaching excellence, scholarly activities, and opportunities for leadership and contributions to the nursing profession.
- Educate students to become self-aware, ethical, caring, collaborative, and clinically and culturally competent practitioners prepared to engage in nursing as caregivers and leaders.

Nursing (BS) Program Outcomes:

At the completion of the BS nursing program, graduates will:

- Synthesize knowledge from liberal arts and sciences, humanities and nursing to provide holistic and patient centered care that promotes empowerment and optimal well-being of individuals, families and communities.
- Practice professional nursing incorporating caring, respect, diversity, integrity, ethics, and the influences of human responses on illness, suffering and healing to assist individuals, families and communities to achieve maximal fulfillment.
- Demonstrate knowledge, critical thinking, and evidence-based clinical judgments to provide therapeutic nursing care interventions for patients throughout the lifespan, for families and communities with multiple and complex health stressors in a variety of settings.
- Use effective communication to collaborate with patients, colleagues, and members of the interprofessional health team to improve health care outcomes for patients, families and communities.
- Incorporate principles of safety, health information technology, organizational and health care systems theory, quality improvement, and political trends in the provision of high quality and safe patient care.
- Express an identity of self as a bachelor prepared nurse and exhibit professional values and behaviors as described by ethical, legal, and professional standards of practice.
- Apply leadership, advocacy, and management strategies in multiple settings to advocate for high quality, safe, accessible, and fiscally responsible healthcare.
- Participate in activities that contribute to advancement of the profession including developing autonomy, advocacy, activism, change, and responsible citizenship.
- Integrate evidence-based findings, research, and nursing theory in decision making in nursing practice.
- Engage in self-reflection and life-long learning to maintain competence as a member of the profession and to achieve personal goals for professional development.

NYS Mandatory Licensure Disclosure Statement

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(60 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
BIO 170 Human Anatomy and Physiology I (GE)	4
BIO 171 Human Anatomy and Physiology II (GE)	4
BIO 240 Bioethics OR HPW 245 Ethics in Health Professions	3
BIO 318 Medical Microbiology	4
US History and Civic Engagement/ World History and Global Awareness (GE)	3
MTH 110 Statistics (GE)	3
Modern Languages – Level II (GE)	3
PSY 101 Introduction to Psychology (GE)	3
PSY 253 Lifespan Development	3
SOC 228 Society and Health	3
SPE 202 Interpersonal Communications (GE)	3
The Arts (GE)	3
Humanities (GE)	3
Liberal Arts Elective	12

Required: Nursing	(64 credits)
NUR 100 Health Assessment	3
NUR 114 Clinical and Theoretical Foundations of Baccalaureate Nursing Practice	8
NUR 206 The Art of Nursing	2
NUR 215W Developing Nurses' Ways of Knowing	3
NUR 217 Care of Individuals Experiencing Acute Health Changes	6
NUR 302 Pathophysiology	3
NUR 305 Health Promotion and Patient Education	3
NUR 307 Nursing Care of Children and the Child Bearing Family	6
NUR 308 Care of Individuals Experiencing Chronic Health Challenges	6
NUR 312 Clinical Pharmacology for Nursing I	3
NUR 314 Clinical Pharmacology for Nursing III	3
NUR 401 Modes of Inquiry	3
NUR 402 Community and Mental Health Nursing	6

NUR 404 Nurse as Advocate and Change Agent	3
NUR 405 Transition to Professional Nursing Practice	6
Total Credits:	124-125

To continue in the nursing program a grade of C+ or better must be maintained in all nursing courses. A grade of B or better is required in BIO 170 and BIO 171, and a C is required in BIO 318 to remain in the nursing program.

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 123-124

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Nursing RN to BS Completion - Online

Bachelor of Science Degree

The Nursing RN to BS Completion Program will prepare licensed registered nurses to provide professional nursing skills to individuals, families and groups in a variety of structured and unstructured healthcare settings, as well as the leadership skills needed to supervise nursing care delivered in acute and community settings. The curriculum offers a balance of courses in general education and nursing. Students are provided with the theoretical knowledge and clinical practice needed to administer care for individuals throughout the life cycle. Learning experiences take place in the online environment and a variety of clinical settings. All students are assisted in the development of their potential with guidance offered by faculty who possess broad nursing experience and academic preparation in the field.

Baccalaureate prepared nurses are equipped with the knowledge, skills, and attitudes to meet complex health care challenges. Building on initial nursing preparation, the RN to BS Completion program will prepare graduates for a broader scope of practice, enhanced professional development, and better understanding social, economic, cultural, and political issues that affect health care delivery. Inclusion of leadership and public and community health concepts foster stronger clinical reasoning and analytic skills which promote career advancement.

The baccalaureate degree in nursing programs at Farmingdale State College, SUNY is accredited by the Commission on Collegiate Nursing Education (CCNE). CCNE is located at 655 K Street NW, Suite 750, Washington DC 20001; phone 202-887-6791 and registered and accredited by the New York State Education Department Office of the Professions.

Typical Employment Opportunities

Registered nurses with a Bachelor degree are prepared to assume leadership responsibilities in the roles of provider of care, manager of care, and member of the profession.

Nursing RN to BS Completion Program Goals:

Contribute to meeting current and future health care needs of diverse populations of the region by educating students to provide safe, evidence-based, and patient-centered professional nursing services that reflect ethical clinical judgment and interprofessional collaboration in varied settings.

Provide a quality program in nursing education including, activities, and service programs that are supportive of the learning needs of diverse students so that they may accomplish their educational goals and encourage lifelong learning.

Use health care technologies, information systems, and technological innovations to create stimulating environments that support and enrich learning and prepare graduates for changes in the health care environment.

Provide an environment that supports academic and teaching excellence, scholarly activities, and opportunities for leadership and contributions to the nursing profession.

Educate students to become self-aware, ethical, caring, collaborative, and clinically and culturally competent practitioners prepared to engage in nursing as caregivers and leaders.

Nursing RN to BS Completion Program Outcomes:

At the completion of the RN to BS Completion Program, graduates will:

- Synthesize knowledge from liberal arts and sciences, humanities and nursing to provide holistic and patient centered care that promotes empowerment and optimal well-being of individuals, families and communities.
- Practice professional nursing incorporating caring, respect, diversity, integrity, ethics, and the influences of human responses on illness, suffering and healing to assist individuals, families and communities to achieve maximal fulfillment.
- Demonstrate knowledge, critical thinking, and evidence-based clinical judgments to provide therapeutic nursing care interventions for patients throughout the lifespan, for families and communities with multiple and complex health stressors in a variety of settings.
- Use effective communication to collaborate with patients, colleagues, and members of the interprofessional health team to improve health care outcomes for patients, families and communities.
- Incorporate principles of safety, health information technology, organizational and health care systems theory, quality improvement, and political trends in the provision of high quality and safe patient care.
- Express an identity of self as a bachelor prepared nurse and exhibit professional values and behaviors as described by ethical, legal, and professional standards of practice.
- Apply leadership, advocacy, and management strategies in multiple settings to advocate for high quality, safe, accessible, and fiscally responsible healthcare.
- Participate in activities that contribute to advancement of the profession including developing autonomy, advocacy, activism, change, and responsible citizenship.
- Integrate evidence-based findings, research, and nursing theory in decision making in nursing practice.
- Engage in self-reflection and life-long learning to maintain competence as a member of the profession and to achieve personal goals for professional development.

Liberal Arts and Sciences	(60 credits)
EGL 101 Composition I: College Writing	3
EGL 102 Composition II: Writing About Literature	3
BIO 170 Human Anatomy and Physiology I (GE)	4
BIO 171 Human Anatomy and Physiology II (GE)	4
BIO 318 Medical Microbiology	4
BIO 240 Bioethics	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3

MTH 110 Statistics (GE)	3
World Languages - Level II (GE)	3
PSY 101 Introduction to Psychology	3
PSY 232 Child Development	3
SOC 228 Society and Health	3
SPE 202 Interpersonal Communications (GE)	3
The Arts (GE)	3
Humanities (GE)	3
Liberal Arts & Sciences Electives	12

Required: Nursing	(61 credits)
NUR 205 Art of Nursing in Professional Practice	3
NUR 215W Developing Nurses' Ways of Knowing	3
NUR 301 Caring for Populations in the Community Setting	4
NUR 305 Health Promotion and Patient Education	3
NUR 315 Healthcare Organization	3
NUR 401 Modes of Inquiry	3
NUR 404 Nurse as Advocate and Change Agent	3
NUR 406 Senior Leadership Practicum	5
Nursing Transfer Credits	34
Total Credits	121

Degree Type: BS
Total Required Credits: 121

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes:

To continue in the nursing program a grade of C+ or better must be maintained in all nursing courses and a C is required in BIO 318.

Nutrition Science

Bachelor of Science Degree

The Bachelor of Science (BS) program in Nutrition Science contains a strong scientific foundation that focuses on the interaction among dietary intake, metabolism, health, and chronic disease throughout the lifespan. Course topics include nutrient intake analysis, metabolism of nutrients, food science, biochemistry, promotion of healthy eating habits, weight management, and medical nutrition therapy. In addition, students develop the ability to work effectively within culturally diverse communities and to translate classroom learning into meaningful, real-world applications through community nutrition and field experiences. The Department of Nutrition Science and Wellness maintains strong mentoring relationships, and active peer collaboration. To accommodate students' varying needs and schedules, courses are offered in face-to-face, hybrid, and online formats throughout the fall, spring, and summer terms.

Graduates are academically prepared for further professional studies of graduate school including dietetic, medical, dental, pharmacy, physician assistant and advanced studies in Nutrition Science.

Graduates interested in becoming a dietitian are eligible to search for entry into multiple accredited M.S. Dietetic programs on their own or utilize our associations with SUNY Oneonta, Long Island-C.W. Post, and University of Rhode Island/Sodexo programs.

Typical Employment Opportunities

- Registered Dietitian Nutritionist (upon clinical master's degree completion & licensure)
- Nutritionist
- Food Service Management
- Healthcare Field Administrator
- Sport, Fitness, and Weight Loss Industry
- Public Health and Community Nutrition
- Nutrition/Health Education
- Food Science
- Food Technology
- Research and Product Development
- Pharmaceutical and Nutraceutical Sales
- Agriculture industry

Nutrition Science (BS) Program Outcomes:

- Graduates will demonstrate professional and personal ethics with a cultural awareness for dietary intake and skills in maintaining health and disease prevention throughout the life span (Professionalism/ Leadership).
- Graduates will employ effective oral and written communication skills (Communication/Marketing).
- Graduates will apply critical thinking skills to evaluate, interpret, and analyze current issues in nutrition utilizing theoretically based problem solving skills (Critical Thinking).
- Graduates will be able to investigate, differentiate, and extrapolate nutrition science data and trends. This will allow them to excel in the nutrition sciences and to prepare for further professional and graduate education (Knowledge).

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(36 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
PSY 101 Introduction to Psychology (GE)	3
BIO 130 Biological Principles I (GE)	4
Humanities (GE)	3
SOC 122 Introductory Sociology (GE)	3
MTH 116 Algebra (GE)	4
BIO 131 Biological Principles II (GE)	4

World Languages (GE)	3
The Arts (GE)	3

Required: Lower Division	(37 credits)
BIO 170 Human Anatomy and Physiology I (GE)	4
CHM 152 General Chemistry Principles I (GE)	4
BUS 131 Marketing Principles	3
BIO 171 Human Anatomy and Physiology II (GE)	4
CHM 153 General Chemistry Principles II (GE)	4
NTR 110 Introduction to Nutrition Science	3
CHM 260 Fundamentals of Organic Chemistry (GE)	4
BIO 318 Medical Microbiology or NTR 330 Food Microbiology	4
NTR 200 Food Science w/Lab	4
Technical Electives Lower Level**	3

Required: Upper Division	(49 credits)
NTR 300 Cultural Foods	3
NTR 305 Weight Management & Obesity	3
NTR 310 Food Service Management	3
NTR 320 Medical Nutritional Therapy w/lab	4
NTR 325 Nutrition Through the Life Cycle	3
NTR 335 Nutritional Biochemistry	3
NTR 340 Nutrition Communication (GE)	3
NTR 350 Energy and Exercise	3
NTR 405 Supplements & Ergogenic Aids	3
NTR 410 Macronutrient Metabolism	3
NTR 411 Micronutrient Metabolism	3
NTR 420 Community Nutrition	3
NTR 425 Nutrition Science Seminar	3
NTR 450 Research Methods in Nutrition Sciences	3
Technical Elective Upper Level***	6
Total Credits	122-123

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 122-123

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes:

**Technical Electives Lower Level

Must select one 3 cr. course

- NTR 150 Quantity Food Production
- BIO 123 Human Body in Health and Disease
- BIO 210 Introduction to Bioscience
- BIO 240 Bioethics
- BUS 101 Accounting I
- BUS 109 Management Theories and Practices
- BUS 259 Public Relations
- BUS 267 Small Business Management
- ECO 156 Principles of Economics – Macro
- SOC 228 Society and Health
- SOC 248 Sociology of Sports

***Technical Electives Upper Level**

Must select two 3 cr. courses

- NTR 360 Experimental Foods
- NTR 365 Sports Nutrition
- NTR 430 Clinical Nutrition Assessment
- NTR 460 Nutrition Field Experience
- BIO 416 Industrial Microbiology
- BUS 305 Entrepreneurship
- ECO 304 Sports Economics
- ECO 310 Health Economics and Policy
- SOC 309 Sport in Society
- SOC 360 Sociological Research Methods

Professional Communications

Bachelor of Science Degree

The Bachelor of Science degree program in Professional Communications prepares its graduates for employment with companies and organizations in all of those fields that rely on effective communication, including mass media (newspapers, radio, television), website and social media, health delivery systems, the biopharmaceutical industry, marketing and public relations firms, colleges and universities, sports organizations, and non-profits. Employees in these positions are responsible for creating proposals, articles, presentations, marketing materials, educational materials, grant applications, legal documents, and financial reports, drawing on skill in conducting background research and the ability to write well.

The curriculum in this program reinforces the ability of its students to write effectively while providing the opportunity for hands-on practice in the use of all forms of communication in this rapidly evolving field. Core courses in the major range from advanced writing and editing, research techniques, and communications theory to digital media and methods, media in communications, and writing for electronic media. This preparation is supplemented with elective courses in various specialties of professional communications.

Students in this curriculum gain a broad academic background through the completion of both General Education requirements and various Arts & Sciences electives. Additional breadth of preparation is achieved through the completion 24 Free Elective credits.

The capstone of the program is an internship placement OR a senior project. The internship option provides students with direct experience and the opportunity to apply the skills gained in the program in a professional environment. For the senior project option, students work closely with a faculty to create a professional communications creative work or thesis.

Professional Communications (BS) Program Mission:

The mission of this program supports the mission of the college by encouraging its graduates to be imaginative, critical thinkers and successful problem solvers. Its inclusion of a broad preparation in the arts & sciences is intended to provide its students with an appreciation of culture, ethics, aesthetics, citizenship, cultural diversity, and the interrelationships among the applied arts and sciences, technologies, and society. The curriculum is designed to produce graduates who meet the needs of regional employers, thereby promoting the economic, social and cultural development of the region.

Professional Communications (BS) Program Outcomes:

Students who graduate with a Bachelor of Science degree in Professional Communications will have -

- Mastery of a full range of communications skills which are needed in every company and organization and that can lead to successful career paths in a wide range of businesses, industries, and organizations.
- A foundation in the liberal arts and sciences that will encourage them to aspire to be exemplary citizens, scholars, professionals, and leaders in society, consistent with the mission of the College.

Student Learning Outcomes:

- Students will be able to identify, gather, synthesize, and cite information and sources to support the preparation of professional documents and presentations of all types.
- Students will be able to organize and produce written documents and oral presentations in a variety of professional formats using language that is lucid, concise, precise, grammatically correct, and appropriate to the topic, audience, and occasion.
- Students will be able to effectively revise and edit documents for both content and organization based on the application of standards of grammar, mechanics and syntax.
- Students will be able to deliver effective oral presentations following appropriate practices, including the utilization of audio-visual materials or technology to enhance their presentations.
- Students will be able to create and update web-based media for optimum effect, making use of the technology associated with electronic media.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(33 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Humanities (GE)	3
Mathematics and Quantitative Reasoning (GE)	3
Natural Sciences and Scientific Reasoning (GE)	3
World Languages (GE)	3
PSY 101 Introduction to Psychology (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
The Arts (GE)	3
SPE 130 Public Speaking (GE)	3
General Education Electives (GE)	3

Program Discipline Courses	(87 credits)
PCM 120 Human Communication	3
PCM 201 Foundations of Professional Communications	3
PCM 202 Communication Technology	3
PCM 203 Media Literacy	3
PCM 204 Survey of Communication Industries	3
PCM 211 Writing for Electronic Media	3
PCM 313W Communications Theory	3
PCM 315 Research Techniques	3
PCM 323 Strategic Writing & Editing	3
PCM 327 Rhetoric and Persuasion	3
PCM 333 Organizational Communication	3
PCM 334 Culture and Communication	3
PCM 410 Digital Media Production	3
PCM 412 Storytelling with Data	3
PCM 414 Digital Journalism	3
PCM 450 Professional Communications Internship I OR PCM 455 Senior Project in Professional Communication	3
300-level Technical Electives**	6
400-level Technical Electives***	9
Free Electives	24

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 120-121

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

****300 Level Technical Electives (Two of the following)**
PCM 305 Media in Communications

PCM 320 Communications in Business
PCM 324 Technical Communications
PCM/SMT 326 Sport Writing
PCM 329 Legal Writing and Analysis
PCM 335 Strategic Communication
PCM 340-345 Special Topics in Professional Communications
RAM 303 Research Experience

*****400 Level Technical Electives (Three of the following)**
PCM 411 Social Media Management
PCM 416 Health Communication
PCM 418 Communication and Conflict Management
PCM 420 Advanced Technical Communications
PCM 425 Documentation Procedures
PCM 428 Grant Writing
PCM 430-435 Special Topics in Professional Communications

Public Administration and Policy

Bachelor of Science Degree

The Public Administration and Policy program provides graduates with the interdisciplinary skills, technical abilities, and social knowledge necessary for successful careers in government and in the many private and non-profit organizations that interface with public policy. Our program provides foundational and advanced courses in political science, as well as several other fields, including communications, economics, and law. In conjunction with faculty advisors, students will customize their curriculum to achieve their academic and career goals. Internship opportunities and a service-learning capstone ensure that graduates can apply classroom theory to real-world practice on day one, and their broadly applicable skills and knowledge will serve them well wherever their career takes them, affording possibilities in and outside of government, and in all sectors of the economy.

Typical Employment Opportunities

- Town, County, State, and Federal Government
- Policy Research and Data Analysis
- Program Evaluation
- Advocacy and Community Organizing
- Nonprofit and Public Service Management
- Management and Policy Consulting
- Community and Economic Development
- Regulatory and Compliance Affairs
- Government Relations, Public Affairs, and Corporate Social Responsibility
- Graduate and Professional Study (JD, MPA, MPP, PhD)

Public Administration and Policy (BS) Program Outcomes:

Graduates will:

- Use methods of social science and techniques of analysis to implement and evaluate public policies and programs at all levels of government.
- Utilize their knowledge of administrative processes in complex policy domains such as energy, health care, and technology.
- Conduct primary and secondary policy research using both quantitative and qualitative data.
- Apply theories of public administration and related disciplines to real-world practice through experiential learning.
- Perform the duties of an entry-level public administrator in public, private, and non-profit organizations, and will possess abilities that are necessary for career advancement and that are transferable across multiple sectors.
- Explain the political context surrounding public policy and public administration and utilize this knowledge for the benefit of their employer.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing (GE)	3
SPE 202 Interpersonal Communication (GE)	3
SPE 330 Professional and Technical Speech (GE)	3
ECO 157 Microeconomics (GE)	3
Any GEO course (200 level or higher)	3
GEO 311 Geography of Long Island	3
GIS 231 Geospatial Research Methods	3
GIS 301 GIScience	3
US History and Civic Engagement (GE)	3
HIS 365 Public History	3
MTH 110 Statistics (GE)	3
Mathematics and Quantitative Reasoning (GE)	3
PHI 205 Ethics (GE)	3
PSY 101 Introduction to Psychology (GE)	3
PSY 311 or BUS 311 Organizational Behavior	3
Natural Science and Scientific Reasoning with Lab (GE)	4
The Arts (GE)	3
World Languages (GE)	3

Required Politics Courses	(30 credits)
POL 110 Introduction to Legal Studies	3
POL 115 Introduction to Public Policy	3
POL 250 American Politics (GE)	3
POL 251 State and Local Government (GE)	3
POL 264 Public Administration	3
POL 344 DEI: History, Politics and Policy**	3
POL 350 Administrative Law	3
POL 364 Advanced Public Administration	3
POL 366 Quantitative Methods of Political Science	3
POL 464 Public Administration Senior Project**	3

Electives	(30 credits)
Free Electives (any level)	18
Technical Electives (300/400 level)***	12

* FYE 101 First Year Experience is required for all first time full time students

**Because of their unique content, credit for POL 344 DEI: History, Politics and Policy and POL 464 Senior Project cannot be earned through prior learning assessments and must be taken at Farmingdale State College. POL 464 will be taken by all students in their final semester

***With faculty advisement, students will select technical electives that are in line with their career goals and professional development. Students may be able to fulfill this requirement with an internship or a combination of courses and internship.

Degree Type: BS
Total Required Credits: 121-122

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses will be developed in accordance with the guiding principles and criteria outlined below. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Science, Technology, & Society

Bachelor of Science Degree

The Science, Technology, & Society Bachelor of Science (BS) degree is a customizable interdisciplinary program that prepares students to confront complex issues and address emerging challenges which have arisen as a consequence of the interconnectedness of systems in the current era. Students in the Science, Technology, & Society program learn to apply methods of scientific thinking and integrative analysis to solve unstructured, real-world problems faced by individuals, organizations, industries, and societies in ways which cut across traditional boundaries of disciplinary thought.

Upon completing the degree, Science, Technology, & Society graduates will have obtained a broadly applicable set of high-value skills necessary to adapt and thrive in the ever changing workforce of the modern age. These skills are honed through upper-division courses in technical communication, data science, geographical information science, and organizational leadership. This STS skill-set is then applied in courses covering contemporary topics best addressed through a multi-perspective, interdisciplinary approach. Topics include the societal impact of technological change, environmental science, global affairs, and gender, race, and culture. The degree culminates in an applied learning capstone experience in which students can choose to enroll in a senior seminar or an internship relevant to their studies.

The Science, Technology, & Society curriculum is designed to develop within the students a problem solving skill-set defined by critical, integrative analysis. Such a skill-set will prepare students to engage head-on the challenges faced by future employers in the Long Island region and beyond. Further, the STS skill-set cultivates the intellectual agility required to succeed in the rapidly evolving professional landscape of the 21st century. By focusing on the interplay between science, technology, and social change, students graduate better equipped to anticipate emerging trends in the workforce and their impact on the future. The skills acquired in the Science, Technology, & Society program may be applied to a range of careers including those in the health professions, social welfare, science policy, and business.

Science, Technology, & Society (BS) Program Outcomes:

At the completion of any of the concentrations within the Science, Technology, & Society program:

- Graduates will be able to synthesize solutions to 21st century problems on the local and global scale through the utilization of scientific thinking and interdisciplinary problem solving.
- Graduates will be able to critically assess issues relevant to the modern workforce and identify internal and external drivers of change.
- Graduates will demonstrate an ability to effectively communicate ideas of a technical nature and be able to appraise and anticipate their impact on society.
- Graduates will demonstrate an understanding of the methods by which data science and geographical information science can provide valuable insight when addressing modern problems

In addition to the above program outcomes, graduates completing the STS pre-health track will meet the prerequisite requirements to enter their intended health professional program.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Required for all students in STS Programs: Liberal Arts & Sciences	(24 credits)
EGL 101—Composition I: College Writing 3	3
EGL 102—Composition II: Writing about Literature	3
Communication - Oral (GE)	3
The Arts (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness (GE)	3
World Languages Level I & II (GE)	6

Required for: Standard Science, Technology, & Society Curriculum	(49-50 credits)
Liberal Arts & Sciences	**Credits**
Social Sciences (GE)	3
US History and Civic Engagement/ World History and Global Awareness (GE)	3
Mathematics and Quantitative Reasoning (GE) (MTH110 or higher)	3
Natural Sciences and Scientific Reasoning (GE)	4
Natural Science Elective w/Lab	3-4
Liberal Arts & Science Electives	21
Free Electives (Standard Science, Technology, & Society Curriculum)	12

Required for: Pre-Health Track Liberal Arts & Sciences	(38 credits)

SOC 122—Introduction to Sociology (GE)	3
PSY 101—Introduction to Psychology (GE)	3
MTH 110—Statistics (GE)	3
BIO 130—Biological Principles I (GE) OR BIO 170—Anatomy & Physiology I (GE)	4
BIO 131—Biological Principles II (GE) OR BIO 171—Anatomy & Physiology II (GE)	4
Liberal Arts & Sciences Pre-Health Electives (BIO 130, BIO 131, BIO 170, BIO 171, BIO 240, CHM 124, CHM 152, CHM 153, CHM 260, CHM 270, ECO 156, ECO 157, MTH 116, MTH 129, MTH 130, NTR 110, PHY 135, PHY 136, PSY 232, PSY 252, PSY 253, SOC 228, SPE 130)	21

Additional Pre-Health Credits	**(12 credits)**
12 Credits from Elective Group: BIO 120, BIO 123, BIO 130, BIO 131, BIO 170, BIO 171, BIO 240, CHM 124, CHM 152, CHM 153, CHM 260, CHM 270, HPW 105, MTH 116, MTH 129, MTH 130, MTH 150, NTR 110, PHY 135, PHY 136, PSY 232, PSY 252, PSY 253, SOC 228, SPE 130	12

Required for all students in STS Programs:	
STS Technical Requirements	**(9 credits)**
BCS 160 Computer Society & Technology	3
STS 330 Scientific Thinking	3
STS 400W—STS Seminar OR STS 401W—Internship2	3

Required for all students in STS Programs:	
STS Restricted Technical Electives (one course at the 300-level or above from each RTE category)	**(39 credits)**
RTE Category 1: Technical & Scientific Communication	3
RTE Category 2: Data Science	3
RTE Category 3: Geographic Information Systems	3
RTE Category 4: Organizational Leadership	3
RTE Category 5: Impact of Technological Change	3
RTE Category 6: Energy, Environment, & Sustainability	3
RTE Category 7: Global Connections	3
RTE Category 8: Gender, Race, & Culture	3
Electives at the 300-level or above	15

[2]A grade of C or higher is required in the Capstone Course (STS 400W or 401W)

All graduates must have 30 credits in residency and a total of 15 credits of Upper Division (300-level or higher) courses in residency.

A full list of STS Restricted Technical Electives is available in the department. The list below is a sample of just some of the RTE's available to take:

Technical & Scientific Communication
EGL 303 – Writing for the 21st Century
EGL 310 – Technical Writing
PCM 315 – Research Techniques
SPE 330 – Professional and Tech. Speech
SPE 331 – Advanced Oral Communications
STS 381 – Science Communication

Data Science
BUS 345 – Foundations of Business Analytics
PSY 324 – Psychological Measurement & Assessment
PSY 348 – Statistics for Psychologists
SOC 366 – Sociological Research Methods
STS 350 – Data & Society

Geographical Information Science
GEO 322 – Cultural Geography
GEO 323 – Urban Geography
GIS 301 – GIScience
GIS 351 – GIS and Public Health
GIS 352 – GIS and Municipal Government

Organizational Leadership
BUS 311 – Organizational Behavior
PSY 311W – Organizational Behavior
PSY 331 – Industrial/Organizational Psychology
SOC 303 – Sociology of Work and Occupation

Impact of Technological Change
ECO 358 – Economics of Labor
HIS 320 – Europe Since the Industrial Revolution
HIS 342 – History of Television
PHI 307 – Philosophy of Science and Technology
POL 393 – Politics and Popular Culture
STS 320 – Tech & Humanity in Cinema
STS 364 - The Future of AI: Choices and Challenges

Energy, Environment, & Sustainability
BIO 355 – Ecological Principles
ENV 302 – Wind Technology
GEO 330 – Environmental Interactions
POL 330 – 21st century Energy Policy
SOC 352 – Environmental Sociology
STS 341 – Sustainable Food Systems
STS 342 – Food and Nutrition Policy in the U.S.

Global Connections
BUS 366 – International Human Resources Management
ECO 340 – International Trade
GEO 355 – Geography of Tourism
HIS 315 – Imperialism: A Modern History
HIS 341 – Terrorism and the Modern World
POL 370 – International Relations
POL 374 – Politics of Africa
SOC 350 – Global Social Change

Gender, Race, & Culture
EGL 309 – Voices of Black America in Poetry, Prose, and Song
HIS 335 – Gender and Technology from a Historical Perspective
MLG 300 – International Cinema
MLG 313 – Science, Literature, and Film in the Hispanic World
MLG 317 –The Arab-American Experience
MLG 321 – Chinese Culture and Civilization
POL 360 – Women in Comparative Development

PSY 307 – Psychology of Women
SOC 325 – Social Inequality
STS 305 - Research Ethics in a Diverse and Inclusive World

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: BS
Total Required Credits: 121-123

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Security Systems

Bachelor of Science Degree
The Bachelor of Science degree program in Security Systems is designed to provide students with an understanding of the applications of security technology. The majority of classes are offered in a lab environment where students receive hands-on experience with both the hardware and software tools to protect digital information, digital systems, and related physical resources from malicious attacks. Specifically, the curriculum focuses on the following areas:

- Computer Security: information security, cryptography, biometrics, and malware protection.
- Computer Forensics: digital evidence, data investigation, file extraction.
- Physical Security: surveillance systems, infrastructure protection.
- Security Policies: incident response, security management, and Intrusion detection.

Emphasis is placed on providing students with the skills required to implement effective and comprehensive information security controls. Two concentrations are offered within the program for students to choose from:

- Network: network analysis courses offer the students educational skills to succeed for the CISCO Certified Network Associate (CCNA) examination.
- Transportation: aviation courses prepare the students for airport security operations.

Highly skilled security personnel are sought after in many industries to ensure protection across systems. Graduates of the program will enter employment fields such as database services/security, operating systems administration, information policy, and security administration.

Typical Employment Opportunities

- Corporate Security
- Federal, State, and Local Security Agencies
- Security Administrator
- Security Analyst
- Digital Investigator
- Information Security Officer

Security Systems (BS) Program Outcomes:

- Graduates will know advanced computer-based evidentiary and discover data methods and will be technically competent to administer procedures for evidence identification, documentation, and chain of custody maintenance.
- Graduates will acquire knowledge to develop comprehensive computer security programs for organizations.
- Graduates will achieve first-hand experience in developing protection programs for organizations using an integrated security systems approach.
- Graduates will appreciate and understand the necessity for personal integrity, professional ethics, and cultural awareness.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(61 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
Oral Communication (GE)	3
PSY 101 Intro to Psychology (GE)	3
SOC 122 Intro to Sociology (GE)	3
World Languages (GE)	3
The Arts (GE)	3
MTH 110 Statistics (GE)	3
Natural Sciences and Scientific Reasoning with a Lab (GE)	4
US History and Civic Engagement/ World History and Global Awareness(GE)	3
Humanities (GE)	3
Liberal Arts and Sciences Electives**	27

Required Courses in the Major	(49 credits)
SST 115 Digital Systems	3
SST 217 Computer Forensics II	3
SST 218 Computer Forensics III	3
SST 230 Biometrics and Identity Theft	3
SST 310 Computer Security I	3
SST 311 Computer Security II	3
SST 312 Computer Security III	3
SST 314 Cybersecurity Law and Policy	3
SST 323 Network Defense	3
SST 410W Senior Project	3
SST 420 Physical Security I	4
SST 421 Physical Security II	3
Free Electives (3 credits must be at the 300-level or higher)	12

Network Concentration (12 Credits)

BCS 208 Introduction to Networks	3
BCS 209 Routing and Switching Essentials	3
BCS 320 Enterprise Networking, Security, and Automation	3
BCS 321 Connecting Networks	3

Transportation Security (12 Credits)

AVN 280 Intro to Air Cargo Operations-Basic	3
AVN 300W Government in Aviation	3
AVN 400 Aviation Law	3
AVN 417 Homeland Security in Aviation	3

*FYE 101 First Year Experience is required for all first time full time students

**Note: The Liberal Arts and Science electives must include:

1. At least one D-designated course
2. At least 9 credits in the Social Sciences
3. At least 12 credits of 300 or higher level courses

Degree Type: BS
Total Required Credits: 122-123

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

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Sport Management

Bachelor of Science Degree

The Sport Management program prepares students for ever-widening professional careers in the sport management industries. Our program provides students with fundamental and advanced-level courses taught by expert, experienced faculty in this dynamic and academically-rigorous subject area. In conjunction with advisors, students may tailor their degree program to best suit their career goals and professional development. Optional internships are available to Sport Management students at any time during their degree progression.

Typical Employment Opportunities

Sports Marketing/Sales
Team/League Sponsorship, Ticketing
Professional Sports Organizations
Collegiate Sport Management and Marketing
Broadcasting/Communications
Sports Information Director/Media Relations
Event Management
Sport Agent
Director of Athletics
Associate Athletic Director/Compliance

Sport Management (BS) Program Outcomes:

- Graduates will have knowledge of the global and complex sports industry.
- Graduates will have knowledge of integration of the special nature of sports, management and marketing theory, and administrative principles.
- Graduates will be able to demonstrate competency in the management and leadership dimensions of sport.
- Graduates will be able to analyze and synthesize information/data and present their findings in a coherent manner.
- Graduates will be regular contributors to sport management and/or related fields.
- Graduates will exhibit an understanding of the necessity for personal integrity, ethical behavior, cultural awareness and lifelong learning.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(60-62 credits)
EGL 101 Composition I: College Writing (GE)	3
EGL 102 Composition II: Writing About Literature	3
EGL 310 Technical Writing	3
The Arts (GE)	3
ECO 304 Sports Economics	3
Communication- Oral: SPE 130, SPE 202, SPE 231, SPE 330, or SPE 331 (GE)	3
World Languages (GE)	3
Humanities (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	3
MTH 110 Statistics (GE)	3
Natural Sciences and Scientific Reasoning (GE)	6-8
ECO 156 Macroeconomics OR	
ECO 157 Microeconomics (GE)	3
PSY 101 Introduction to Psychology (GE)	3
SOC 122 Introduction to Sociology	3
PSY 304, PSY 309, PSY 311, PSY 330, or PSY 331	3
SOC 309 Sport in Society	3
Liberal Arts & Sciences Electives	9

Required: Business and Sport Management	(51 credits)
BUS 101 Accounting I	3
BUS 102 Accounting II	3
BUS 109 Management Theories and Practices	3
BUS 202 Business Law I	3
BCS 102 Computer Concepts and Applications	3
SMT 110 Introduction to Sport Management	3
SMT 215 Sport Information Management	3
SMT 220 Media and Sport	3
SMT 225 Sport Marketing	3

SMT 304 Sport Finance	3
SMT 311 Sport Law	3
SMT 320 Athletic Administration	3
SMT 340 Sport Facility Management	3
SMT 365 Sport Sales and Revenue Generation	3
SMT 370 Research in Sport Management	3
SMT 409 Strategic Sport Management	3
SMT 420 Current Topics in Sport OR	
SMT 440 Sport Management Internship I	3
SMT 485W Senior Seminar in Sport**	3

Electives	(6 credits)
BUS/BCS/SMT/PED (200 level or higher), RAM 303 or PED	6
Total Credits:	**120-123**

*FYE 101 First Year Experience is required for all first time full time students

**SMT 485W must be completed in residence at Farmingdale State College

Degree Type: BS
Total Required Credits: 120-123

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

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Visual Communications: Art & Graphic Design

Bachelor of Science Degree

The Visual Communications Department has a history of nearly seventy-five years of innovation and excellence. The graphic design program offers a comprehensive and relevant educational experience that prepares students to be real-life creative problem-solvers in traditional and emerging fields. Graduates demonstrate valuable professional skills and technological competencies vital for succeeding in an evolving creative environment.

The Visual Communications: Art & Graphic Design Baccalaureate Degree experience also includes opportunities that enable students to gain essential professional experience and participate beyond the classroom. Two internship courses encourage students to pursue professional opportunities, while the "in-house" agency courses allow students to work collaboratively and directly with clients. The Design Club enables students to participate in the industry and gain practical experience. There are also industry-related field trips and unique study abroad programs with trips that range from a few weeks to an entire semester.

The success of graduates in positions of responsibility in some of the best-known agencies, design teams, studios, and corporations in the region and around the country illustrates our program's strength. Many alumni have become thriving entrepreneurs by establishing new agencies and art-related businesses or as well as through active freelance careers.

For additional information, or to schedule an interview and tour of our facilities, please contact the Visual Communications Department at 934-420-2181.

Typical Employment Opportunities

- Art Director
- Brand Identity Designer
- Creative Director
- Editorial Designer
- Graphic Designer
- Interface Designer
- Package Designer
- Photographer
- Production Manager
- Social Media Designer
- Visual Content Designer
- Web Designer

Visual Communications (BS) Program Outcomes

- Graduates will receive a strong foundation in design, will have opportunities to explore, experiment, and master skillets in traditional disciplines and digital techniques.
- Graduates will demonstrate diverse knowledge and skills required to perform professionally in an evolving creative work environment.
- Graduates will exhibit the knowledge necessary to understand design from an historical perspective, as well as current and future trends of industry.
- Graduates will have learned specific professional skills addressing resume development, self-promotion, job search skills, industry procedures and practices and presentation techniques.
- Graduates will have created a portfolio of work, which will meet industry demands in order to successfully compete in the current job market.

Qualifications for the Graphic Design Program

To be considered for admission to the Graphic Design Program, you must meet the following qualifications:

- A freshman high school GPA of 80 or higher
- A transfer GPA of 2.5 or higher
- One high school or college level art class
- A passing score on the Visual Communications portfolio test
- A passing score on an art aptitude test

In addition to these qualifications, we also look for applicants who demonstrate creativity, originality, and strong communication skills. If you are interested in pursuing a career in graphic design, we encourage you to apply to our program.

Farmingdale State College is an accredited institutional member of the National Association of Schools of Art and Design.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(39 credits)
EGL 101 Composition I: College Writing (GE)	3
ART 200 History of Graphic Design (GE)	3

ART 201 Survey of Art History: Prehistoric Times through the Middle Ages (GE)	3
ART 202 Art History – Early Renaissance to Present (GE)	3
Any 300+ Art Elective	3
US History and Civic Engagement (GE)	3
Mathematics (GE)	3
Oral Communication	3
Natural Sciences and Scientific Reasoning (GE)	3
World History and Global Awareness (GE)	3
Social Sciences (GE)	3
300+ Liberal Arts Elective	6
Support Courses	**(12 credits)**
BUS 131 Marketing Principles	3
Free Elective	6
300+ Free Elective	3
Visual Communications Core	**(69 credits)**
VIS 110 Drawing I	3
VIS 112 Two-Dimensional Design	3
VIS 114 Color	3
VIS 115 Three-Dimensional Design	3
VIS 116 Digital Media and Methods	3
VIS 120 Drawing II	3
VIS 122 Typography I	3
VIS 222 Graphic Design I	3
VIS 225 Photography I	3
VIS 318 Four-Dimensional Design	3
VIS 232 Graphic Design II	3
VIS 236 Typography II	3
VIS 332 Graphic Design III	3
VIS 336 Advertising I	3
VIS 338 Illustration for Graphic Designers	2
VIS 340 Industry Preparation	3
VIS 346 Advertising II	2
VIS 350 Photography II	2
VIS 414 Interaction Design	3
VIS 416W Senior Project I	3
VIS 418 Portfolio	3
VIS 426W Senior Project II	3
Technical Electives (BUS, BCS, VIS, IXD) **	3
300+ Technical Elective	3
Total Credits:	120-121

*FYE 101 First Year Experience is required for all first time full time students

**Technical Electives can be chosen from any course that has a BCS (Computer Systems), BUS (Business Management), VIS (Art & Graphic Design), or IXD (Interaction Design) course designator for which the pre-requisite has been met. This gives students the opportunity to develop their interests within Visual Communications: Art & Graphic Design and related fields. One course must be at the 300 level or higher.

Degree Type: BS
Total Required Credits: 120-121

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Transfer credit is granted at the discretion of the faculty based on grades and a portfolio assessment. All students entering the program, including transfer students, will be required to take VIS 116 Digital Media & Methods.

Criminal Justice - Law Enforcement

Associate in Science Degree

The goal of this program is to prepare students to be real-life problem solvers in the field of law enforcement. The program is designed to develop procedural competencies and broad-based knowledge in students who wish to pursue careers in Criminal Justice as well as for in-service personnel who seek career advancement in law enforcement. The Department offers a full-time day program and a part-time evening program. Students have the opportunity to interact with faculty who represent a wide spectrum of Criminal Justice experience, expertise and scholarly achievement including assistance to the National Institute of Justice and numerous state and local agencies, task forces and professional and learned societies.

We remain faithful to our tradition of providing students with a broad based educational experience by drawing from the deep reservoirs of knowledge of the arts and sciences. Our associate degree program provides students with the educational credentials necessary for many law enforcement careers, and graduates who wish to continue their education will find that the AS degree enables them to transfer to a wide variety of related upper division programs.

Typical Employment Opportunities

- Federal Government
- U.S. Armed Forces Police
- State Government
- Local Government
- Business and Industry Security
- Enforcement Agencies
- County, City, Town, Village, Law
- Insurance Claim Investigation

Criminal Justice – Law Enforcement (AS) Program Outcomes:

- Graduates will have knowledge of the complexities involved in law enforcement and its administration.
- Graduates will have an understanding of investigative procedures and evidence management in police operations and will be competent

in the administration of chain of custody proceeds that emphasize the courts.
- Graduates will have an understanding of sources of criminal activity and behavior.
- Graduates will gain understanding of criminal law and procedure, and its relationship to crime prevention and detection.
- Graduates will have an appreciation and understanding of the necessity for personal integrity, professional ethics, and cultural awareness.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(34 credits)
EGL 101 Comp I: College Writing (GE)	3
Oral Communication (GE)	3
Humanities GE)	3
The Arts (GE)	3
Natural Science and Scientific Reasoning with a lab (GE)	4
US History and Civic Engagement (GE)	3
MTH 110 Statistics (GE)	3
PSY 101 Introduction to Psychology (GE)	3
PSY 315 Abnormal Psychology	3
SOC 122 Introduction to Sociology (GE)	3
SOC 229 Race and Ethnic Relations (GE) **OR**	
SOC 231 Promises & Challenges of Multiculturalism (GE)	3

Required: Criminal Justice	(30 credits)
CRJ 100 Introduction to Criminal Justice	3
CRJ 101 Law Enforcement/Comm Relations	3
CRJ 102 Juvenile Delinquency and Justice	3
CRJ 105 Corrections in America	3
CRJ 200W Criminal Investigation	3
CRJ 203 Criminology	3
CRJ 205 Criminal Procedure Law	3
CRJ 211 Law Enforcement Administration	3
CRJ 245 Logic & Reasoning in Criminal Justice	3
CRJ 301 Criminalistics	3

Credits may be granted for successfully completed Municipal Police Training Council Basic or Intermediate Schools.

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: AS
Total Required Credits: 64-65

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied. As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Dental Hygiene

Associate in Applied Science Degree

The dental hygiene program prepares students for licensure and entry into the profession of dental hygiene, as well as certification in the administration of local infiltration anesthesia/nitrous oxide analgesia. The program in dental hygiene is accredited by the Commission on Dental Accreditation and is granted the accreditation status of "Approval without Reporting Requirements." The program will be reviewed again at the next scheduled site visit in 2030. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The Commission's web address is: www.ada.org/coda. Graduates receive an Associate in Applied Science degree and are eligible to sit for the National Board Examination in Dental Hygiene, as well as State and Regional Practical Board Examinations for dental hygienists.

As the need for dental hygiene care continues to grow in the Nation, many new and varied opportunities are available for graduates in a wide array of work settings. Although the clinical role is most closely associated with dental hygiene, it is only one of six roles officially designated for the hygienist, which include educator, researcher, administrator, change agent, and consumer advocate. Although special emphasis is placed on educating the clinical hygienist, all the roles are incorporated into the theoretical framework and practical experiences of the curriculum. The program provides general education, as well as specialized courses in the biomedical and oral sciences.

Students perform a variety of comprehensive services at the College's technologically advanced Dental Hygiene Care Center. Among these services are thorough assessment of oral conditions, non-surgical periodontal therapy (scaling and root planing of teeth), exposing, processing and interpreting oral x-rays, patient education and nutritional counseling.

The Dental Hygiene Care Center is in compliance with all Occupational and Safety Health Administration (OSHA)/Infection Control regulations regarding infectious diseases and bloodborne pathogens.

As a condition for acceptance into the dental hygiene program all applicants are required to submit evidence of satisfactory health. Evidence of immunization and adequate titers for measles, mumps, rubella and varicella must be provided. In addition, matriculated students will be required to take a yearly Mantoux test for tuberculosis. Students are strongly urged to submit evidence of immunization and titer for Hepatitis B. It is recommended that students who test negatively for Hepatitis B receive the appropriate vaccine. Students who decline this recommendation will be required to sign a waiver of responsibility. All Dental Hygiene students are required to participate in the group liability policy, provided by the college, which will afford malpractice coverage during the time enrolled in the Dental Hygiene curriculum.

Outclinic Rotations
Matriculated dental hygiene students must provide proof of citizenship or immigration status to participate in certain outclinic rotations. Students who do not participate in outclinic rotations may be unable to meet the graduation requirements.

Licensure and Certification Requirements

Applicants must be a United States citizen, or an alien lawfully admitted for permanent residence in the United States to apply for a Dental Hygiene License and Local Anesthesia/Nitrous Oxide Certification.

For further information visit NYS Office of the Professions.

Individuals who have been found guilty, or pleaded guilty to a felony, may not be eligible for dental hygiene licensure. The State Certifying Board may grant a waiver based upon mitigating circumstances. Contact NYS Office of the Professions for further information.

Typical Employment Opportunities

- Private Dental Offices
- Geriatric Facilities
- Public Health Agencies
- Research Laboratories
- School Health Services
- Pharmaceutical Corporations
- Private Care Center
- Dental Supply Companies
- Hospitals
- Armed Forces
- Insurance Companies
- Managed Care Facilities

Dental Hygiene (AAS) Program Outcomes:

- Graduates will have the knowledge and skills necessary to provide comprehensive dental hygiene care to the general population including the adolescent, geriatric and special needs patient.
- Graduates will develop an expertise in the area of health promotion and disease prevention through assessment, planning, implementation and evaluation of community based oral health programs and effective interaction with diverse population groups.
- Graduates will develop a sense of professionalism as health care providers including self assessment, recognition and management of ethical, legal and regulatory issues, and evaluation of scientific literature as it relates to the profession of dental hygiene.

Special Opportunities

As a student in the Dental Hygiene Associate in Applied Science Degree Program you are expected to participate in the Student American Dental Hygienists' Association (SADHA) which promotes student leadership through community outreach, lunch and learn programs and various campus activities.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(20 credits)
BIO 166 Anatomy & Physiology** (GE)	4
BIO 221 Oral Microbiology (GE)	4
EGL 101 Composition I: College Writing**(GE)	3
PSY 101 Introduction to Psychology (GE)	3
MTH 110 Statistics (GE)	3
SPE 202 Interpersonal Communications (GE)	3

Required: Dental Hygiene	(50 credits)
DEN 102 Dental Materials & Expanded Functions	3
DEN 105 Dental & Oral Anatomy	3
DEN 106 Oral Radiology I	3
DEN 108 Oral Histology & Embryology	2
DEN 110 Preventive Oral Health Concepts I	2
DEN 115 Clinical Dental Hygiene I	3
DEN 126 Periodontology	2
DEN 201 Pain Management	2
DEN 203 Principles of Nutrition for Oral Health Professionals	2
DEN 205 Oral Pathology	2
DEN 207 Oral Radiology II	1
DEN 212 Pharmacology	3
DEN 220 Preventive Oral Health Concepts II	2
DEN 221W Community Oral Health I	2
DEN 222 Community Oral Health II	2
DEN 225 Clinical Dental Hygiene II	3
DEN 230 Preventive Oral Health Concepts III	2
DEN 235 Clinical Dental Hygiene III	4
DEN 240 Dental Practice Management, Ethics & Jurisprudence	2
DEN 245 Clinical Dental Hygiene IV	5
Total Credits:	70-71

*FYE 101 First Year Experience is required for all first time full time students

Once a student has been admitted to DEN 105, courses must be completed in semester sequence, without interruption. Any student who misses a semester will not be permitted to continue in the program until approval has been obtained (if granted) from the Admissions and Academic Standards Committee of the Dental Hygiene Department. Students who have been given permission to continue in the program will be required to take the skills refresher course DEN 015. Procedural information may be obtained from the Department Chair of Dental Hygiene in Gleeson Hall.

Dental Hygiene Admission Requirements from High School:

High School Diploma or GED
Integrated Algebra and Geometry
Laboratory Biology
Laboratory Chemistry**

**College chemistry is required if students receive less than an 85 in the class or less than a 70 on the regents exam

*** In addition to the high school requirements, applicants not applying directly from high school are required to complete the following courses prior to admission:

- EGL 101
- BIO 166

All courses with a DEN prefix must be completed in residence at Farmingdale State College.

Degree Type: AAS
Total Required Credits: 70-71

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your

advisor to ensure that graduation requirements are satisfied. As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Notes: The nature of this program will expose students to bodily fluids and blood borne pathogens. The Dental Hygiene Department adheres strictly to the Occupational and Safety Health Administration (OSHA) Guidelines for infectious disease control. Students must be certified in basic life support procedures prior to entering the clinical sequence. Students are required to provide their own transportation to off campus field experiences. For all field experiences, student dress must conform with field agency protocol. Students are required to purchase their own instruments and specific clinically related supplies. A grade of "C" (2.0) or better must be maintained in all courses with a DEN, BIO, CHM or ENG prefix. A failure in a clinically related area constitutes withdrawal from the Dental Hygiene curriculum. Students are also required to provide their own patients (approximately 8) for clinic during the second semester of the program. A TOEFL (Test of English as a Foreign Language) Examination with a minimum score of 550 (paper), 213 (computer), or 79 (internet) will be required as a condition for entrance into the Dental Hygiene program for: a) applicants who are foreign born high school seniors and have had ESL (English as a Second Language) courses in high school or b) applicants with secondary credentials from a foreign country whose language of instruction was not English, regardless of any coursework completed in the United States.

General Horticulture

Associate in Applied Science Degree

This program is designed to provide a generalized study of horticulture requiring basic introductory courses while offering a wide range of electives so that the students can develop their desired areas of expertise.

Students receive training in plant identification, botany, entomology, soils, and horticulture. Students may elect courses such as: greenhouse management, plant propagation, landscape drafting, landscape construction, commercial floral design and arboriculture. The laboratory hours provide students with valuable "hands-on" experiences in our extensive greenhouses and ornamental teaching gardens.

Professional development opportunities are varied since the program offers students three horticulture electives. This allows students to choose their own areas of specialization within the program.

Typical Employment Opportunities

- Floral Designer
- Retail Florist
- Flower Shop Manager
- Sales Manager
- Interior Landscape Designer
- Commercial Grower
- Interior Horticultural Service Technician
- Wholesale Distributor
- Garden Center Salesperson/Manager
- Arboretum Technician
- Nursery Salesperson/Manager
- Wholesale Nursery Manager
- Municipal & Urban Forestry Manager
- Commercial or Utility Arborist
- Landscape Garden Maintenance
- Public Garden Employment

General Horticulture (AAS) Program Outcomes:

- Graduates will receive a strong foundation in science and master skill sets utilizing traditional and cutting edge techniques.
- Graduates will demonstrate diverse knowledge and skills required to perform professionally in today's complex multi-disciplinary environment.
- Graduates will exhibit the knowledge necessary to understand horticulture from an historical perspective, as well as current and future trends of industry.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	(22-24 credits)
EGL 101 Composition I: College Writing	3
EGL 102 Composition II: Writing About Literature	3
Oral Communication	3
Bl0 192 Botany	4
Bl0 198 Entomology OR	
BIO 290 Entomology II	3-4
Natural Science/Mathematics	3-4
Students are required to take 3 credits in one of the following General Education competency areas: Humanities, World Languages, Social Science, World History and Global Awareness, US History & Civic Engagement.	3
Support Courses	**(3 credits)**
BUS Business Elective OR BCS 102 Computer Concepts and Applications	3

Required: Horticulture	(37 credits)
HOR 110 Horticulture I	3
HOR 111 Horticulture II Growth and Development of Cultivated Plants	3
HOR 112 Soils: The Foundation of Life	3
HOR 127 Horticulture Seminar	1
HOR 200 Herbaceous Plants I	3
HOR 204 Herbaceous Plants II	3
HOR 211 Woody Plants I	3
HOR 212 Woody Plants II	3
HOR 218 Indoor Plants	3
HOR 238 Turfgrass Culture	3
HOR Horticulture Electives (in non-required HOR)	9
Total Credits:	62-65

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: AAS
Total Required Credits: 62-65

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied. As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ).

Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Landscape Development

Associate in Applied Science Degree

This program is intended to prepare students for the professional world of landscape contracting and landscape design. The Landscape Development program trains students in: landscape drafting, landscape graphics and design, landscape plans, planting plans, landscape construction, landscape surveying, computer-aided design, plant materials, and professional landscape practices.

Graduates are trained landscape horticulturists prepared to begin a career in the landscape contracting profession.

Typical Employment Opportunities

Landscape Designer
Landscape Technician
Landscape Consultant
Landscape Inspector
Landscape Contractor
Landscape Maintenance Proprietor
Landscape Construction Supervisor
Landscape Planting Supervisor

Landscape Development (AAS) Program Outcomes:

- Graduates will receive a strong foundation in design, and master skill sets utilizing traditional and cutting digital techniques.
- Graduates will demonstrate diverse knowledge and skills required to perform professionally in today's design environment.
- Graduates will exhibit the knowledge necessary to understand design from an historical perspective, as well as current and future trends of industry.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

Liberal Arts and Sciences	**(22-24 credits)**
EGL 101 Composition I: College Writing	3
EGL 102 Composition II: Writing About Literature	3
Oral Communication (GE)	3
Bl0 192 Botany	4
BIO 198 Entomology OR	
BIO 290 Entomology II	3-4
Mathematics (by Advisement)	3-4
Students are required to take 3 credits in one of the following General Education competency areas: Humanities, World Languages, Social Science, World History and Global Awareness, US History & Civic Engagement	3
Required:Horticulture	**(40 credits)**
HOR 200 Herbaceous Plants I	
OR	
HOR 204 Herbaceous Plants II	3
HOR 110 Horticulture I	3
HOR 111 Horticulture II Growth and Development of Cultivated Plants	3
HOR 112 Soils: The Foundation of Life	3
HOR 127 Horticulture Seminar	1
HOR 131 Landscape Drafting I	3
HOR 133 Landscape Drafting II	3
HOR 207 Landscape Plans I	3
HOR 211 Woody Plants I	3
HOR 212 Woody Plants II	3
HOR 219 Landscape Construction	3
HOR 220 Landscape Plans II	3
HOR 238 Turfgrass Culture	3
HOR 371 Landscape CAD I	3

Total Credits	62-65

*FYE 101 First Year Experience is required for all first time full time students

Degree Type: AAS
Total Required Credits: 62-65

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied. As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Technical Electives

HOR 107 The Plant Science of Cannabis (3 Credits)
HOR 134 The Production of Cannabis I (3 Credits)
HOR 230 The Production of Cannabis II (3 Credits)

Liberal Arts and Sciences

Associate in Arts Degree

The Liberal Arts and Sciences Department provides its students with a broad-based liberal arts education which prepares them for junior level study in a variety of majors in the Liberal Arts and Sciences such as communications, education, English, history, law, psychology, sociology, social work, medicine, the applied health professions, biology, and all the physical sciences. Liberal Arts and Sciences students are required to fulfill all ten General Education requirements.

A broad range of elective courses in the Liberal Arts and Sciences allows students who are undecided about their majors to experiment with possible choices. Moreover, students who have majors or careers in mind may test those choices by taking elective courses that are prerequisites for their chosen majors.

Each student's schedule of courses is arranged after careful consultation with a program advisor every semester.

Liberal Arts and Sciences (AA) Program Outcomes:

- Graduates will develop the broad-based knowledge and skills necessary for upper division study and success in a variety of career choices.
- Graduates will develop a firm appreciation of culture, ethics, esthetics, cultural awareness, and lifelong learning.

College Requirement	(1 credit)
FYE 101 First Year Experience*	1

General Education Requirements	(31 credits)
EGL 101 Composition I: College Writing (GE)	3
Humanities (GE)	3
The Arts (GE)	3
US History and Civic Engagement/ World History and Global Awareness(GE)	6
Mathematics (GE)	6
World Languages - Level II (GE)	3
Social and Behavioral Science (GE)	3
Natural Science with lab (GE)	4

Consult with your advisor to ensure that the general education graduation requirements are satisfied and are appropriate to your goals.

Program Required Courses	(31 credits)
EGL 102 Composition II: Writing About Literature	3
General Education Speech Course (GE)	3
Natural Science with lab elective	4
Social Science elective	3
Arts and Sciences electives**	12
Free Electives	6
Total Credits:	62-63

*FYE 101 First Year Experience is required for all first time full time students

**Courses in this category must be from the School of Arts and Sciences only.

Degree Type: AA
Total Required Credits: 62-63

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied. As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Accounting Certificate

Certificates in Business Management are offered in Accounting, Marketing, Management and International Business. Certificates are designed to provide a general exposure to a field for students not seeking a degree.

***Gainful Employment Mandatory Disclosure Statement**

Required Courses:

BUS 101 Accounting I	3
BUS 102 Accounting II	3
BUS 271 Intermediate Accounting I	3
BUS 310 Principles of Taxation	3

Two Accounting Electives Selected From:

BUS 272 Intermediate Accounting II	3
BUS 273 Cost Accounting	3
BUS 470 Advanced Accounting	3
BUS 471 Auditing	3

Total Required Credits: 18

Notes: 1. Students planning to pursue a degree program after completing the certificate program are urged to select elective courses applicable to the degree program.

Cannabis Production and Management Certificate

The Certificate Program in Cannabis Production and Management prepares graduates for emerging new careers in the legalized cannabis industry. With the 2021 passage of the Marijuana Regulation and Taxation Act, New York joins other states with an expanded market for legalized cannabis and cannabis-related products. There is a growing need for skilled technicians and specialists who can enter this exciting field as growers, budtenders, dispensary staff, product managers, and marketing/sales associates. Offered as an online program, the Certificate in Cannabis Production and Management requires students to complete 24 credit hours which includes three courses in cannabis science and production, three courses in the business of legalized cannabis, one course that explores the economics of the cannabis market, and one course that addresses medicinal and health-related issues to legalized cannabis.

Typical Employment Outcomes:

- Dispensary manager
- Retail budtender
- Crop cultivation technician
- Marketing assistant
- Business manager
- Sales representative
- Wellness guide

Certificate Program Outcomes:

- Manage/assist the cultivation of cannabis for medicinal, recreational, and industrial use.
- Market cannabis products and manage their sale through dispensaries and other outlets.
- Understand and communicate legal, economic, and health-related cannabis considerations.

***Gainful Employment Mandatory Disclosure Statement**

BUS 112 Legal Environment of Business in the Cannabis Industry	3
BUS 134 Cannabis Management and Marketing	3
HOR 107 The Plant Science of Cannabis	3
HOR 134 The Production of Cannabis I	3
HOR 234 The Production of Cannabis II	3
HPW 230 Health and Cannabis Usage	3
Choose two of the following courses:	
CRJ 109 Cannabis & Criminal Justice Law & Policy **OR**	
BUS 222 Accounting for Cannabis Managers **OR**	
ECO 306 Cannabis Economics	6

Total Required Credits: 24

Computer Information Systems Certificate

A Certificate program in Computer Information Systems is available for those students who do not wish to work toward a degree. The following is a list of courses which a student must take in order to be eligible for the Certificate. Students with experience in the computer field may be excused from specific required courses, but will have to take replacement courses in their stead.

***Gainful Employment Mandatory Disclosure Statement**

BCS 120 Foundations of Computer Programming I	3
BCS 160 Computers, Society, and Technology	3
BCS 215 UNIX Operating System	3
BCS 230 Foundations of Computer Programming II	3
BCS 260 Data Base	3
BCS 262 Data Communications	3
BCS 300 Management Information Systems	3
BCS 301 Systems Analysis and Design	3
BCS/BUS elective	3
BUS 109 Management Theories and Practices	3
BUS 101 Accounting I	3

Total Required Credits: 33

Human Resource Management Certificate

The certificate program in Human Resource Management (HRM) is designed to prepare students for current and emerging roles in the growing area of Human Resource Management. The certificate consists of 18 credits (six 3- credit courses). The program is intended for students interested in developing knowledge, skills, abilities, and other characteristics for roles related to human resource management, such as recruitment and selection, training and development, performance management and compensation, as well as general business management.

***Gainful Employment Mandatory Disclosure Statement**

BUS 109 Management Theory and Practices	3
BUS 266 Personnel/Human Resources Management	3
BUS 352 Employment Law	3
BUS 368 Compensation & Performance Management	3
BUS 360 Leadership Theories & Practices	
or BUS 460 Leadership and Ethics	3
BUS Elective*	3

Total Required Credits: 18

***BUS Electives:**

BUS 141 Business Communications
BUS 202 Business Law
BUS 209 Teamwork and Team Building
BUS 311 Organizational Behavior
BUS 322 International Management
BUS 366 International Human Resource Management
BUS 367 Negotiations & Conflict Resolution
BUS 370 Counterproductive Behavior in Organizations
BUS 379-382 Business Internship
BUS 390-391 Special/Select Topics, as approved
BUS 412 Business, Government, and Society
BUS 442 Human Resource Analytics

Note: Courses in the HRM certificate program may count towards your degree program as either required courses or electives. Please consult with your academic advisor and/or use the "What if" function in Degree Works to verify the applicability of the HRM certificate courses to meet the requirements of your degree program.

Management Certificate

Certificates in Business Management are offered in Accounting, Marketing, Management and International Business. Certificates are designed to provide a general exposure to a field for students not seeking a degree.

***Gainful Employment Mandatory Disclosure Statement**

BUS 101 Accounting I	3

BUS 102 Accounting II	3
BUS 109 Management Theory and Practices	3
BUS 111 Introduction to Business	3
BUS 131 Marketing Principles	3
BUS 141 Business Communications	3
BUS 266 Personnel/Human Resources Management	3
BUS 307 Corporate Finance	3

Four additional courses (12 credits) in Business

Total Required Credits: 36

Notes: 1. Students planning to pursue a degree program after completing the certificate program are urged to select elective courses applicable to the degree program.

Marketing Certificate

Certificates in Business Management are offered in Accounting, Marketing, Management and International Business. Certificates are designed to provide a general exposure to a field for students not seeking a degree.

***Gainful Employment Mandatory Disclosure Statement**

BUS 131 Marketing Principles	3
BUS 254 Principles of Selling **OR**	
BUS 312 Purchasing and Supply Chain Management	3
BUS 257 Advertising Principles	3
BUS 250 Consumer Behavior	3
BUS 320 International Marketing	3
BUS 319 Marketing Research	3

Total Required Credits: 18

Notes: 1. Students in the Business Management program may be able to satisfy up to 18 credits of Elective requirements in the Business Management program by completing the Marketing Certificate.

Modern Manufacturing and Quality Assurance Certificate

This certificate program is designed for individuals looking to start or advance a career in high-demand and technology-driven industries. It provides comprehensive knowledge of modern manufacturing techniques, quality control practices, and workplace safety. Through a combination of technical courses and software applications, students gain theoretical and hands-on experience in machine tool operations, computer aided design (CAD), computer aided manufacturing (CAM), additive manufacturing (3D printing), and metrology. This program ensures that graduates are prepared to excel in various roles, including machine operations, CAD designers, tool designers, CNC programmers, process specialists, and quality control specialists. The flexible curriculum is designed to accommodate working professionals and those balancing multiple commitments.

MTH 110 Statistics	3
MET 101 Introduction to Mechanical Engineering Technology	2
MET 105L Technical Drawing & CAD	1
MET 117 Manufacturing Processes	2
MET 127 Adv. Manufacturing Processes	2
MET 150 Solid Modeling	2
MET 252 Quality Control (Metrology)	3
MET 301 Three-Dimensional Printing Applications	3
MET 303 Tool Design	3
MET 351 Computer Aided Manufacturing	3
MET 409 Statistical Quality Control	3
IND 308 Occupational Safety or IND 310 Industrial Hygiene	3

Total Required Credits: 30

Ornamental Horticulture Certificate

The objective of the Certificate program is to develop and prepare individuals for careers in horticulture. Openings exist for technically-oriented specialists as sales representatives, managers, supervisors, and production managers in turf, nursery, parks, florists, landscaping, and closely related fields.

***Gainful Employment Mandatory Disclosure Statement**

Liberal Arts and Sciences	(4 credits)
BIO 192 Botany	4

Required:	credits
HOR 110 Horticulture I	3
HOR 111 Horticulture II Growth and Development of Cultivated Plants	3
HOR 112 Soils: The Foundation of Life	3
HOR 211 Woody Plants I	3
HOR 204 Herbaceous Plants II	3
HOR 212 Woody Plants II **OR**	
HOR 218 Indoor Plants	3
HOR Horticulture Electives*	12

* Student with varied interests may select electives based on advisement and course availability.

A minimum of 34 credits is required.

Technical Electives

HOR 107 The Plant Science of Cannabis (3 Credits)
HOR 134 The Production of Cannabis I (3 Credits)
HOR 230 The Production of Cannabis II (3 Credits)

Sciences for the Health Professions Certificate

The Certificate in Sciences for the Health Professions is a post-baccalaureate science program designed to meet the needs of students with bachelor's degrees in non-science fields who seek a career change into the health professions, but lack some or all of the necessary science and mathematics background. It thus offers an affordable means for academically qualified students to prepare themselves for admission into professional programs in this field. Acceptance into this Certificate program requires an earned bachelor's degree with a GPA of at least 3.0.

Certificate Program Outcomes

- To achieve a level of competency in the laboratory sciences, and in mathematics as necessary, sufficient to meet the intellectual challenges of a professional program in the health sciences.
- Provide a post-baccalaureate program that will enable individuals to complete the specific academic preparation necessary to apply to professional programs in health care (e.g. Medicine, Dentistry, Physical Therapy, Veterinary Medicine).

***Gainful Employment Mandatory Disclosure Statement**

Required	(16 credits)
BIO 130 Biological Principles I	4
BIO 131 Biological Principles II	4
CHM 152 General Chemistry Principles I	4
CHM 153 General Chemistry Principles II	4

Electives (18 credits selected from the following)	Credits
BIO 170 Human Anatomy & Physiology I	4
BIO 171 Human Anatomy & Physiology II	4
BIO 318 Medical Microbiology	4
BIO 270 Anatomy & Physiology I	4
BIO 271 Anatomy & Physiology II	4
BIO 343 Principles of Genetics	3
BIO 344L Principles of Genetics Lab	1
BIO 348 Cell Biology	3
BIO 365 Neurology of Pain	3
BIO 380 Pre-professional Experience I	3
BIO 381 Pre-professional Experience II	3
CHM 260 Fundamentals of Organic Chemistry	4
CHM 270 Organic Chemistry I	5
CHM 371 Organic Chemistry II	5
CHM 380 Biochemistry	4
CHM 381 Advanced Biochemistry	3
MTH 129 Precalculus	4
MTH 130 Calculus with Applications	4
MTH 150 Calculus I	4
MTH 151 Calculus II	4
NTR 110 Intro to Nutrition Science	3
PHY 135 College Physics I	4
PHY 136 College Physics II	4
PHY 143 General Physics I	4
PHY 144 General Physics II	4

Total Required Credits: 34

Sustainable Energy Certificate

The Sustainable Energy Certificate has been designed to respond to the rapidly expanding need for skilled professionals in sustainable energy-related occupations. The certificate provides fundamental information about emerging sustainable energy systems, including solar photovoltaics (solar PV), wind energy technologies, energy storage systems, and geothermal systems. The certificate offers learners a credential in preparation for entry-level support positions in sustainable energy or to supplement experience gained in traditional energy sectors. Graduates will possess expertise in determining the benefits of integrating the sustainable energy fields associated with the certificate program into the existing energy production infrastructure. The graduates will also gain competency in evaluating the impact of energy policies in the specific sustainable energy field as well as serving in public-facing roles to improve awareness and acceptance of emerging sustainable energy sources. Graduates will be able to describe the environmental impacts associated with sustainable energy sources.

Typical Employment Outcomes:

- Public utility companies
- Alternative energy companies such as solar power or geothermal distributors
- Governmental enterprises such as cities and towns
- Public advocacy groups supporting sustainable energy

Certificate Program Outcomes:

Upon successful completion of the coursework, students will be able to:

- Discuss the importance of solar, wind and geothermal energy sources and the integration of energy storage systems as a sustainable energy solution.
- Provide arguments in connection with advantages, disadvantages, as well as societal, economic and environmental considerations in relation to sustainable energy solutions.
- Evaluate the impact of specific energy policies as well as environmental policies in solar energy, wind technology, geothermal systems and energy storage applications.
- Advocate for the implementation of sustainable energy applications including solar and wind installations.
- Explain the methods of extracting geothermal energy to promote utility energy efficiency and electrification actions.
- Assess funding opportunities along with other incentives associated with sustainable energy solutions.

***Gainful Employment Mandatory Disclosure Statement**

ENV 101 Energy Sustainability and Environment	3
MTH 110 Statistics (or higher)	3

ENV 302 Wind Technology	3
ENV 303 Energy Storage and Electric Drive Vehicles	3
ENV 304 Geothermal Systems	3
ENV 306 Solar Energy	3

Total Required Credits: 18

Wind Turbine Technology

This certificate program will prepare students for technical careers in wind energy technology. Demand for wind energy technicians is on the rise, given the country is on a path to generate 20% of its energy needs from wind by 2030. Facilities and laboratories specifically designed and equipped for the certificate coursework will provide students with hands-on experience to learn and apply theory through the use of trainers and virtual reality simulations. Graduates will be prepared as entry-level wind turbine technicians, capable of demonstrating skills in operating, maintaining, and troubleshooting wind energy related equipment.

Typical Employment Opportunities

- Function as a member of the wind energy team to support wind power production
- Inspect, diagnose, adjust, or repair wind turbines
- Perform maintenance on wind turbine equipment including resolving electrical, mechanical, and hydraulic malfunctions
- Support wind turbine operations, maintenance, and service

Certificate Program Outcomes

- Follow and apply wind turbine safety guidelines according to industry standards
- Explain the principles of a wind turbine system, including general operation and maintenance
- Conduct maintenance routines for mechanical, electrical, and hydraulic components of a wind turbine
- Analyze wind turbine systems to detect and mitigate commonly occurring faults in mechanical and electrical systems
- Demonstrate an understanding of technical schematics/drawings (mechanical, electrical, and hydraulic systems) and how to interpret them for troubleshooting and maintenance purposes

***Gainful Employment Mandatory Disclosure Statement**

BCS 262 Data Communications	3
ENV 100 Introduction to Electric Circuits	4
Any Level MTH course	4
WTT 101 Introduction to Wind Energy Turbine Technology	3
MET 101 Introduction to Mechanical Engineering Technology	2
MET 105L Technical Drawing and CAD	1
WTT 301 Wind Turbine Mechanical Systems	3
WTT 307 Principles of Fluid Power Systems	3
IND 308 Occupational Safety	3
WTT 314 Wind Turbine Motor Control	3
WTT 415 Wind Turbine Troubleshooting	4

Total Required Credits: 33

Notes: 1. Students planning to pursue a degree program after completing the certificate program are urged to select elective courses applicable to the degree program.

Africana Studies Minor

Africana Studies is an interdisciplinary field that centers African, African American, and Caribbean history, culture, and politics. Using the methodological tools and theories of the social sciences and humanities, Africana Studies examines the political, social, and economic organization of nations, communities, and people from Africa and the African Diaspora.

Like all the minors in the Sociology and Anthropology Department, the minor does not prepare students for employment in one particular job, but for many different types of work that emphasize or require strong: writing skills, analytical and critical thinking, research skills, reading comprehension, and oral communication. This minor complements any major degree in which students anticipate working in diverse environments and in which they serve the public.

Consisting of 15 credits, students enrolled in the Africana Studies minor must maintain a cumulative GPA of 2.5 in their courses that qualify for the minor.

Student Learning Outcomes:

Students will be able to:

- Demonstrate their ability to think critically about social, political, and economic issues pertinent to Africa and the African diaspora.
- Access and comprehend scholarly and mainstream sources on Africa and the African diaspora.
- Demonstrate understanding of the methodologies and skills used in the humanities and social sciences to study Africa and the African diaspora.
- Define and provide examples of colonization, decolonization, Black liberation/power movements, and their legacies.
- Explain, verbally and in writing, the concept of intersectionality and connect the experiences of people within the Africana Diaspora with race, ethnicity, class, gender, and sexuality.
- Adopt a transnational lens and demonstrate an awareness of social justice issues and initiatives involving people of African descent in the United States and around the world.

Core:	(6 Credits)
SOC 150 Introduction to Africana Studies OR	
HIS 130 African American History to 1865 OR	
HIS 131 African American History Since 1865	3
SOC 308 Black Political and Social Thought	3

Elective Courses:	(9 Credits)
ANT 211 Caribbean Cultures	3
ANT 300 Africanisms in the Americas	3

BUS 227 Grassroots Entrepreneurship Within Minority Communities	3
EGL 235 Caribbean Literature	3
EGL 309 African American Literature	3
HIS 280: Caribbean History	3
HIS 324 Roots of Black Americans	3
MLG 307 French and Francophone Fiction and Film	3
POL 374 Politics in Africa	3
SOC 253: Black Popular Culture	3
SOC 311: African American Leadership	3

Total Required Credits: 15

Air Force ROTC

The minor in Air Force ROTC is offered to any Farmingdale baccalaureate student completing the courses of study listed below. The minor not only prepares cadets for active duty service but provides any student the opportunity to study one of our country's major instruments of power, the United States Military. In addition to studying Air Force organizations, missions, and operations, the student will gain a broad perspective of the military in general by studying the history of all Department of Defense Services and completing a leadership and/or business course emphasizing the key elements of leadership required of an Air Force Officer. The AFR courses are conducted at Manhattan College on Fridays. Completion of the minor does not fulfill all commissioning requirements.

Student Learning Outcomes:

- Students will demonstrate diverse knowledge of the United States Military.
- Students will have an appreciation of the historical development for the Department of Defense Services.
- Students will gain the ability to apply leadership skills required of an Air Force Officer.
- Students will be able to work effectively on teams.

Required:	Credits
AFR 101 The Foundations of the U.S. Air Force I	1
AFR 102 The Foundations of the U.S. Air Force II	1
AFR 201 The Evolution of U.S. Air and Space Power I	1
AFR 202 The Evolution of U.S. Air and Space Power II	1

Select 1 course from the following:	(3 credits)
BUS 311 / PSY 311 Organizational Behavior	3
BUS 209 Teamwork & Team Building	3
BUS 360 Leadership Theories and Practices	3
BUS 460 Leadership and Ethics	3

Required:	Credits
AFR 301 Air Force Leadership and Management I	3
AFR 302 Air Force Leadership and Management II	3
AFR 401 National Security Affairs/ Prep for Active Duty I	3

Please note that this minor will only require 3 credits completed at FSC (per ROTC agreement)

American Politics Minor

The American Politics minor examines how power, institutions, and ideas shape governance and public life in the United States. Students study enduring foundations such as federalism, separation of powers, and the Constitution, while also engaging with judicial politics, social justice, women in politics, and energy and environmental policy. Contemporary perspectives on media and culture further highlight how politics permeates everyday experience. By situating politics in the American context, the minor enables students to connect their primary fields of study to enduring debates and pressing issues in US governance.

Student Learning Outcomes

Students will:

- Describe and analyze the key components of American government including federalism, separation of powers, and democratic representation
- Identify the key institutions in American government and how they operate
- Analyze political behavior at both the electorate and elite levels
- Use foundational and recent political science research to understand current events in the United States

About Academic Minors

Farmingdale State College students are invited to enhance their studies with an "Academic Minor." A minor is a cluster of thematically related courses drawn from one or more departments. In addition to department based minors (e.g. computer programming & info systems), interdisciplinary minors are also available (e.g. legal studies).

Academic minors are approved by the College-Wide Curriculum Committee and the Provost. Students must make application for an academic minor through the department offering the minor in conjunction with the Registrar's Office Specific course work must be determined in consultation with a faculty member in the department offering the minor. A statement of successful completion of the academic minor will appear on the student's transcript at the time of graduation.

A minor is considered to be an optional supplement to a student's major program of study.
Completion of a minor is not a graduation requirement and is subject to the availability of the courses selected. However, if the requirements for a minor are not completed prior to certification of graduation in the major, it will be assumed that the minor has been dropped. Consequently, the student will only be certified for graduation in their primary major.
Only students in 4 year baccalaureate programs can apply for a minor.
A minor should consist of 15 to 21 credits.
At least 12 credits must be in courses at the 200 level or higher.
At least 9 credits must be residency credits.
Specific requirements for each minor are determined by the department granting the minor.
Students must maintain a minimum cumulative GPA of at least 2.0 in their minor. Some minors may require a higher GPA.
Students are prohibited from declaring a minor in the same discipline as their major (e.g. one cannot combine an applied math minor with an applied math major). Academic minors may not apply to all curricula.
Students are permitted to double-count courses.
Students are only permitted to take more than one minor with appropriate written approval of their department chair or curriculum Dean.

Required Courses	(6 credits)
POL 250 American Politics	3
POL 251 State and Local Government	3

Electives (take 9 credits from any of the following courses)	(9 credits)
POL 210 Legal Reasoning and Judicial Politics	3
POL 264 Public Administration*	3
POL 270 American Political Institutions	3
POL 301 American Foreign policy	3
POL 313 Taylor Swift and Politics	3
POL 318/PSY 318 Political Psychology	3
POL 325 Women in American Politics	3
POL 330 21st Century Energy Policy	3
POL 333 American Campaigns and Elections	3
POL 340 Constitutional Law and Politics	3
POL 344 DEI History, Politics, and Policy*	3
POL 345 American Parties and Partisanship	3
POL 350 Administrative Law*	3
POL 364 Advanced Public Administration*	3
POL 390 Environmental Politics	3
POL 398 DC Internship*	3
POL 399 NYS Legislative Internship*	3

* Students enrolled in the PAP major cannot double count these electives for the American Politics minor

Anthropology Minor

The Sociology and Anthropology Department offers an undergraduate Minor in Anthropology to all students matriculated in a baccalaureate degree program at Farmingdale State College. Students who opt to complete a minor in Anthropology must apply through the Sociology and Anthropology Department.

The discipline of Anthropology provides students with the tools and perspectives necessary for understanding how humans and their cultures have developed and most critically, how we continue to develop and change our cultures and societies. The fundamental concepts, theories, and research methodologies of Anthropology provide students with useful tools for understanding human cultures and the various social institutions in which we all participate, enabling them to meet the many challenges of living and working in what has been termed "the local community."

The Anthropology Minor consists of 15 credits in Anthropology, adjustable to suit the interests of the individual student, with the approval of their Anthropology Advisor and the Department of Sociology and Anthropology.. At least nine of the credits must be in advanced courses in Anthropology at the 200 level or higher. Students enrolled in the Anthropology Minor must maintain a cumulative GPA of 2.5 in their Anthropology courses.

Student Learning Outcomes:

- Students will be able to demonstrate understanding of how evolution works and genetic processes. In particular, students will be able to explain broad outlines of human evolution, including comparison with other primates.
- Students will have an understanding of processes and debates about what has been called civilization, including domestication of plants and animals; agricultural origins and possible consequences; settled village and urban life; and state formation.
- Students will be familiar with four field anthropology, and from that, they will be able to explain the basic methods of each field, e.g. how archaeologists analyze and interpret artifacts and how material culture interacts with attitudes and beliefs.
- Students will understand what cultural relativity means within anthropology and develop appreciation for cultural explanations of human difference.
- Students will understand the development of important social constructs/categories such as "race" and gender categories.
- Students will demonstrate understanding of how anthropologists conduct fieldwork, including ethnographic techniques, analysis, and writing.
- Students will demonstrate critical thinking skills by analyzing anthropological interventions on contemporary issues like immigration or racism.

Core:	(3 Credits)
ANT 100 Introduction to Anthropology	3
OR	
ANT 120 Introduction to Archaeology	3

General Anthropology Courses:	(12 Credits)
(9 of which must be 200 level or higher)	
ANT 110 Sociocultural Anthropology	3
ANT 130 North American Indians	3
ANT 210 Modern Anthropology and Globalization	3
ANT 211 Caribbean Cultures	3
ANT 212 Introduction to Medical Anthropology	3
ANT 220-229 Special Topics in Anthropology	3
ANT 240 Women, Men, and Social Change	3
ANT 250 Forensic Anthropology	3
ANT 300 Africanisms in the Americas	3
ANT 312 Advanced Medical Anthropology	3
ANT 320-329 Advanced Topics in Anthropology	3

ANT 360 Anthropological Theory	3
ANT 366 Anthropological Research Methods	3
ANT 480 - 482 Research Internship I	1-3
OR	
ANT 485-487 Research Internship II	1-3
RAM 303 Research Experience	3

Total Required Credits: 15

Notes: Students who plan eventually to major in Anthropology should be advised by an Anthropology faculty member and are encouraged to take a Modern Language; Statistics (MTH 110); SOC 122. Study abroad is recommended. Other courses relevant to the specific interests of Anthropology students might include: BIO 123, 130; 166/170, 193, 197, 210; CON 103; CRJ 201, 203; HIS 213, 215, 216, or 240; MLG 305-308; PCM 425, 426; POL 110; SOC 220, 225, 228-263

Applied Gerontology Minor

A minor in Applied Gerontology is a program open to all majors in a multidisciplinary field that is professionally diverse and rapidly growing. As the number and percentage of elders continues to increase, our society will be facing crucial issues about aging which will impact the lives of most Americans. A minor adds an extra credential to the resume, gives an unique edge in the job market or graduate school applications and will provide additional employment opportunities.

A minor provides students the opportunity to broaden their knowledge and skills to work with and support the aging. Students learn to use the knowledge gained from the courses to improve the quality of life and promote well-being of our aging population, in their respective fields. The gerontology related coursework focuses on topics that yields to best practices at both, an individual and administrative level, for supporting successful aging.

The minor in Gerontology is an 18-credit program of study which includes a required 3-credit course, GRO 100 Introduction to Gerontology, 6 credits of electives from a selection of 200 level courses and 9 credits of electives from 300-400 level courses taken from the course list.

Student Learning Outcomes

- Students will articulate and integrate interdisciplinary theories commonly applied in field of gerontology
- Students will evaluate societal issues and challenges resulting from aging
- Students will demonstrate knowledge in old age as a life-stage and aging as a life-long process
- Students demonstrate an understanding of the psychological, physiological, and sociological changes that occur with aging
- Students will have an opportunity to have an individualized experience in the field of aging that is tailored to their unique interests and/or career goal

About Academic Minors

Farmingdale State College students are invited to enhance their studies with an "Academic Minor." A minor is a cluster of thematically related courses drawn from one or more departments. In addition to department based minors (e.g. computer programming & info systems), interdisciplinary minors are also available (e.g. legal studies).

Academic minors are approved by the College-Wide Curriculum Committee and the Provost. Students must make application for an academic minor through the department offering the minor in conjunction with the Registrar's Office Specific course work must be determined in consultation with a faculty member in the department offering the minor. A statement of successful completion of the academic minor will appear on the student's transcript at the time of graduation.

- A minor is considered to be an optional supplement to a student's major program of study.
- Completion of a minor is not a graduation requirement and is subject to the availability of the courses selected. However, if the requirements for a minor are not completed prior to certification of graduation in the major, it will be assumed that the minor has been dropped. Consequently, the student will only be certified for graduation in their primary major.
- Only students in 4 year baccalaureate programs can apply for a minor.
- A minor should consist of 15 to 21 credits.
- At least 12 credits must be in courses at the 200 level or higher.
- At least 9 credits must be residency credits.
- Specific requirements for each minor are determined by the department granting the minor.
- Students must maintain a minimum cumulative GPA of at least 2.0 in their minor. Some minors may require a higher GPA.
- Students are prohibited from declaring a minor in the same discipline as their major (e.g. one cannot combine an applied math minor with an applied math major). Academic minors may not apply to all curricula.
- Students are permitted to double-count courses.
- Students are only permitted to take more than one minor with appropriate written approval of their department chair or curriculum Dean.

Core:	(3 credits)
GRO 100 - Introduction to Gerontology	3

200 Level Elective Courses	(6 credits)
SOC 228 - Society and Health	3
HPW 245 - Ethics in Health Professions or BIO 240 - Bioethics	3
PSY 252 - Adult Development	3
PSY 253 - Lifespan Development	3

300 and 400 Level Elective Courses	(9 credits)
GRO 300 - Biology of Aging	3
GRO 310 - Nutrition of Aging	3
GRO 320 - Caregiving	3
NTR 325 - Nutrition Through Life Cycle	3
HPW 435 - Health Care Administration	3
GRO 340 - Gender and Aging	3
GRO 410 - Health Care Insurance	3
GRO 450 - Health Care Law	3

Total Required Credits: 18

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses will be developed in accordance with the guiding principles and criteria outlined below. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Applied Mathematics Minor

A minor in Applied Mathematics allows students majoring in another discipline to strengthen their general mathematical expertise and analytical skills and attain specific skills related to their major study area.

Student Learning Outcomes:

- Students will be able to obtain breadth, depth, and computational fluency in differential and integral calculus.
- Students will be able to obtain a strong foundation for working with linear transformations on vector spaces and be able to apply these concepts to problems in various fields.
- Students will be able to obtain a mathematical background relevant to their chosen majors.
- Students will be able to attain specific skills related to their major study area.

Required	**(19-21 credits)**
MTH 130 Calculus I with Applications **OR**	
MTH 150 Calculus I	4
MTH 151 Calculus II (4 credits) **OR**	
MTH 236 Calculus II with Applications (3 credits)	3-4
MTH 245 Linear Algebra	3
One Mathematics course 200 or higher level*	3 - 4
Two Mathematics courses 300 or higher level*	6

*Students may not get credit for both MTH 253 and MTH 322

- Maintain a minimum cumulative GPA of 2.0 in the minor
- Of the credits counted towards the minor, 9 must be residency credits

Total Credits: 19 - 21

Art & Graphic Design Minor

The Art & Graphic Design Minor is an 18-21 credit adjustable minor designed to suit the artistic interests of the individual student. All students will gain a basic foundation of art and design skills and an opportunity for further study in areas such as art history and related humanities, fine arts, graphic design and/or digital photography.

Students interested in this minor must be accepted into the minor by the Visual Communications department and meet with an advisor to choose appropriate courses.

Required Courses:	**6 credits**
VIS 112 Two-Dimensional Design	3
VIS 260 Graphic Design for Non VIS Majors	3

Required Course (choose one):	**3 credits**
VIS 110 Drawing I **OR**	3
VIS 116 Digital Media	3

Pick 3-4 Courses from the following list. Note: At least 3 courses must be at the 200 level or higher

Art History and Humanities	**credits**
ART 200 History of Graphic Design	3
ART 201 Survey of Art History: Prehistoric — Middle Ages	3
ART 202 Survey of Art History: Early Renaissance — Present	3
ART 203 History of Interaction Design	3
ART 302 Art History: Survey of American Art	3
ART 303 MesoAmerican Art History	3
ART 304 Global Art History	3
Fine Arts	**credits**
VIS 101 Introduction to Drawing (with VIS permission only)	3
VIS 103 Introduction to Watercolor	3
VIS 104 Introduction to Calligraphy	3
VIS 105 Introduction to Photography (with VIS permission only)	3
VIS 114 Principles of Color	3
VIS 115 Three-Dimensional Design	3
VIS 120 Drawing II	3
VIS 216 Painting I	3
VIS 217 Introduction to Printmaking	3
VIS 252 Drawing and Painting Techniques	3
VIS 380 Illustrative Style I	3
Design	**credits**
IXD 101 Design Thinking	3
IXD 102 Design for Game Play	3
VIS 122 Typography I	3
VIS 215 Introduction to Animation	3
VIS 225 Photography I	3
VIS 240 Publication Design I	3
VIS 242 Publication Design II	3
VIS 254 Package Design	3
VIS 265 Web Design for Non-Majors	3
VIS 353 Editorial Design	3
VIS 354 Corporate Identity	3
2-Credit Options:	**credits**
VIS 338 Illustration for Designers	2
VIS 350 Photography II	2

1-Credit Options:	credits
VIS 118 Creative Concepts Seminar	1
VIS 280 Adobe Illustrator	1
VIS 281 Adobe Photoshop	1
VIS 284 Adobe InDesign	1
VIS 328 Industry Topics Seminar	1

Other VIS 200+ courses may be considered as electives if approved by the Department Chair.

Total Credits: 18-21

Asian Studies Minor

The Asian Studies Minor is designed for students who wish to deepen their knowledge of East Asia, with particular focus on China, Japan, and Korea. The minor offers students of all majors an opportunity to explore Asia from the interdisciplinary perspectives of history, politics, geography, society, literature, culture, art, landscape design, film, science, economics, and business as well as language. Students are encouraged to study abroad in Asia.

The Asian Studies Minor consists of 15 credits (five 3-credit courses). Students are required to take three Asia-focused courses and two-Asia component courses chosen with the approval of the program's coordinator. While language study is not required for this minor, students interested in learning Chinese language can take CHI 151 and CHI 152. (Note: only one 100-level course will count toward the minor). Courses taken abroad or in an Asia-focused internship will be considered by the coordinator to determine appropriateness for the minor.

Student Learning Outcomes:

- Students will gain knowledge of Asia from a Historical and Political Perspective
- Students will acquire an interdisciplinary appreciation of the importance of East Asia and its role and contributions to the global society - past and/or present.
- Students will develop intercultural competencies that will prepare them for travel, business, or study in East Asia

The three required Asia-focused courses may be selected from the following options:	
CHI 151 Chinese I **OR** CHI 152 Chinese II	3
HIS 213 Peoples and Cultures of Asia	3
HIS 214 East Asia and the World	3
HIS 216 History of Central Asia: From Genghis to Borat	3
HIS 311 China Since 1840	3
HIS 343 Cinema and The City	3
POL 373 Politics in Asia and the Pacific Rim	3
MLG 321 Chinese Culture and Civilization	3

The two Asia-component courses may be selected from the following options:	
ART 201 Survey of Art History: Prehistoric Times Through Middle Ages	3
BUS 280 International Business	3
BUS 320 International Marketing	3
BUS 322 International Management	3
BUS 366 International Resource Management	3
BUS 494 & BUS 494W Global Strategy	3
ECO 340 International Trade	3
EGL 206 World Literature: Early Classics	3
GEO 211 The World and Its Peoples	3
HIS 233 Comparative Religions and Cultures	3
HIS 315 Imperialism	3
HIS 319 Special Topics in History	3
HOR 350 The Art History of Garden Design and Landscape Architecture	3
MLG 300 International Cinema	3
MLG 325 Visions of the East in Hispanic Civilization	3
POL 262 Global Politics	3
POL 265 Comparative Politics	3
POL 370 International Relations	3
POL 371 Geopolitics	3
POL 392 Religion and Politics	3
RAM 303 Research Experience	3

Total Required Credits: 15

Notes: 1. Some sections of the Special Topics courses listed below have a thematic focus on East Asia. If students request, the Minor Coordinator will approve those Asia-themed sections as counting toward the minor: ECO 390 (Special Topics in Economics), GEO 290 (Topics in Geography), GEO 390 (Special Topics in Geography), HIS 219 (Topics in History), HIS 319 (Special Topics in History), POL 395 (Special Topics in Politics), and STS 400W (Senior Seminar in Science, Technology, and Society) 2. Some sections of the Special Topics courses listed below have a thematic focus on East Asia. If students request, the Minor Coordinator will approve those Asia-themed sections as counting toward the minor: ECO 390 (Special Topics in Economics), GEO 290 (Topics in Geography), GEO 390 (Special Topics in Geography), HIS 219 (Topics in History), HIS 319 (Special Topics in History), POL 395 (Special Topics in Politics), and STS 400W (Senior Seminar in Science, Technology, and Society)

Automotive Management Minor

The minor in Automotive Management is available to students who wish to develop a deeper understanding and practical skill sets for the automotive business management industry. Students selecting this Automotive Management Minor will take 18 credit hours consisting of courses in customer relations, financing and leasing, and automotive related business management. Students enrolled in the Automotive Management Minor must maintain a cumulative GPA of 2.0 in their courses.

Student Learning Outcomes:

- Students will gain fundamental knowledge of employment practices, business analysis, and automotive finances.

- Students will have an effective understanding of relevant quantitative information related to the automotive management service industry

Required:	
MTH 110 Statistics	3
BUS 300 Operations Management	3
IND 316 Customer Relations and Quality	3
IND 317 Automotive Financing and Leasing	3
IND 320 Fleet Management	3
IND 408 Automotive Business Management	3

Aviation Administration Minor

This minor is intended for students that wish to incorporate a study of Aviation Administration into their academic background. The recommended list of courses provides a broad overview of the air transportation industry, the airport and airway infrastructure and Federal Government oversight of this dynamic career field.

Student Learning Outcomes:

- Students will have an appreciation of the historical development of the aviation industry.
- Students will demonstrate knowledge of the role of government and regulations in the aviation industry.
- Students will develop the ability to make professional and ethical decisions in aviation-related fields of employment.
- Students will be able to identify emerging trends in aviation.

Required:	credits
AVN 101 Aviation Industry: A History Perspective	3
AVN 271 Airport Capacity/Delay/ Airspace	3
AVN 300 Gov't in Aviation	3
Aviation Electives (200 level or above, Approved by Aviation Department Chair)	6

Aviation Flight Minor

Students completing this minor will develop the aeronautical knowledge, experience, and proficiency required to obtain a private pilot certificate. This minor is intended for students that wish to incorporate practical airmanship experience into their academic background. To be eligible for certifications exams or licensure in the field, additional requirements must be fulfilled, including a medical exam administered by an FAA Aviation Medical Examiner. Additional fees associated with flight training apply. Interested students should contact the aviation department for more information.

The Aviation Flight Minor is only for current students in the Aviation Administration or Professional Pilot Major who have trained with us.

Student Learning Outcomes:

- Students will possess the necessary knowledge, skills and attitudes to competently function as an FAA licensed private pilot.
- Students will exhibit an understanding of the ethical and professional responsibilities of an aviation professional.
- Students will demonstrate the ability to interpret weather forecasts.

Required:	
AVN 104 Private Pilot Ground	3
AVN 105 Private Pilot – Flight to Solo	1
AVN 106 Private Pilot – Flight to Certificate	1
AVN 201 Safety Ethics	3
AVN 202 Aviation Meteorology	3
AVN 321 Physiology of Flight	3
Aviation Elective (200 level or above)	3

Biology Minor

This minor is intended for students who wish to incorporate a study of biology into their academic background. In addition to the freshman Biological Principles sequence, the upper-division courses offered by the department provide the opportunity to explore various specialties within the field of Biology.

Student Learning Outcomes:

- Students will demonstrate familiarity with major biological concepts and vocabulary.
- Students will demonstrate basic laboratory skills and adherence to laboratory safety standards, and interpret experimentally derived data.

Required	**8 credits**
BIO 130 Biological Principles I	4
BIO 131 Biological Principles II	4
Electives	**Minimum 12 credits**
Biology (BIO) courses at the 200-level or higher, including at least one additional laboratory course (with appropriate prerequisites satisfied)	

Business Analytics Minor

The Business Analytics minor, consisting of 15 credits, is open to all students except for Business Analytics majors. The minor intends to prepare students to work as business analytics professionals that are highly sought by organizations that value exploring data to gain business insights. Business Analytics minor students will gain cutting-edge analytics knowledge and skills that enable them to collect and analyze data from a variety of sources and then identify and deliver insights critical to organizational success. To complete the minor, students will take two required courses in Business Analytics and three additional elective courses.

Student Learning Outcomes:

- Students will gain a deep understanding of the role of analytics in business value creation and decision making.
- Students will develop competencies in identifying, collecting, cleaning, preparing, and analyzing data, and communicating their data analysis results to designated audiences.

Required:	(6 credits)
BUS 111 Introduction to Business OR	

BUS 109 Management Theories and Practices	3
BUS 345 Foundations of Business Analytics	3

In consultation with their advisors, students may apply to take three electives from the following list (9 credits):

MTH 246 Introduction to Financial Mathematics OR	
BUS 308 Quantitative Techniques in Finance	3
BUS 340 Advanced Business Statistics OR	
ECO 380 Econometrics	3
BUS 385 Business Data Management OR	
CSC 363 Data Management	3
BUS 442 Human Resources Analytics	3
BUS 346 Social Media Analytics	3
BUS 440 Visual Analytics	3
BUS 445 Advanced Business Analytics	3
ECO 480 Forecasting	3

Total Credits: 15

Business Management Minor

Available to all baccalaureate majors except Business Management or Aviation Administration majors, the minor is intended for students who wish to attain a broad understanding of the foundation topics in this multifaceted field. The minor consists of 21 credits; BUS 101 – Accounting I, BUS 109 – Management Theories and Practices, and BUS131 – Marketing Principles are required, plus four Business courses (12 credits) at the 200 level or above.

Student Learning Outcomes:

- Students will gain fundamental knowledge of basic accounting, marketing, and management principles.
- Students will will acquire an appreciation for the role of business in society.
- Students will develop competencies that will prepare them for further study in business or employment in a business environment.

The Business Management Minor is not available to Business Management or Aviation Administration majors. The minor consists of 21 credits distributed as follows:

Required:	**(9 credits)**
BUS 101 Accounting I	
BUS 109 Management Theories & Practices	
BUS 131 Marketing Principles	
Electives	**(12 credits)**
Business Management (BUS) courses at the 200-level or higher	

Communication Minor

The Minor in Communication is open to all baccalaureate students outside the Professional Communications program, and consists of five courses for a total of 15 credits. Of the five courses, three are required and two are electives to be selected from any other available PCM courses at the 300 or 400-level. Students taking this minor will gain a solid foundation in Professional Communication, including an introduction to the various communication industries, the application of various methods and technologies for effective communication in organizations, and the ability to write, edit and produce various types of communications.

Student Learning Outcomes:

- Students will improve their ability to create professional communication documents and presentations using Microsoft Office applications, designed according to the purpose, function, and venue for which these are intended.
- Students will develop skill in writing for electronic media making use of industry-standard software programs in computer laboratories equipped with individual student stations.
- Students will become proficient in the process of executing a communication project, from the development of the concept to the presentation of the final product.
- Students will become familiar with a range of practical applications within the field of communication so that they are able to recognize the potential of each, and to select appropriate methods for accomplishing tasks as future employees of companies and organizations.

Required Courses	**(9 credits)**
PCM 120 Human Communication	3
PCM 201 Foundations of Professional Communication **OR**	
PCM 203 Media Literacy	3
PCM 313W Communications Theory	3

Choose any two additional courses from the following:	**(6 credits)**
PCM 305 Media in Communications	3
PCM 315 Research Techniques	3
PCM 320 Communication in Business	3
PCM 323 Strategic Writing & Editing	3
PCM 324W Technical Communications	3
PCM 326 Sport Writing	3
PCM 327 Rhetoric and Persuasion	3
PCM 333 Organizational Communication	3
PCM 334 Culture & Communication	3
PCM 335W Strategic Communication	3
PCM 410 Digital Media	3
PCM 411 Social Media Management	3
PCM 414W Digital Journalism	3

PCM 416 Writing for Health and Disease	3
PCM 417 Communication Campaign Development	3
PCM 418 Communications and Conflict Management	3
PCM 420W Advanced Technical Communications	3

Total Required Credits: 15

Computer Forensics Minor

The Minor in Computer Forensics is available to students who wish to develop knowledge and skills in digital investigation principles and applications. The Minor consists of five courses totaling 15 credits. Three of these five courses are specific computer forensics courses, and the remaining two elective courses can be selected from the SST courses at the 300 or higher level. Students must maintain a cumulative GPA of 2.0 in the minor. All students can participate in this minor except those who are majoring in Security Systems or Criminal Justice: Law Enforcement Technology.

Student Learning Outcomes:

- Students will gain knowledge of the fundamental concepts of digital computers and digital forensic science
- Students will develop skills in data acquisition, data analysis, integrity validation, and evidence generation.
- Students will examine federal, state, and local computer fraud statutes that provide a legal foundation on which to approach computer investigations.

Required:	
SST 115 Computer Forensics	3
SST 217 Computer Forensics II	3
SST 218 Computer Forensics III	3
Any two additional SST courses at the 300-level or higher	6

Computer Networking Minor

The Computer Networking minor is available for students who wish to develop a deeper understanding and practical skill sets in networking. Students selecting this Computer Networking minor will take 18 credit hours of programming, networking and computer applications courses.

Student Learning Outcomes:

- Students will gain skills in programming, develop algorithms using top-down stepwise refinement including competencies in arrays, pointers, strings, classes, data abstraction, inheritance, composition and overloading.
- Students will build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. The laboratory component will give the students hands-on experience configuring equipment needed to build a LAN.
- Students learn how to configure a router and a switch for basic functionality, will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.
- Students configure routers and switches for advanced functionality with the ability to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks.
- Students acquire the skills needed to implement DHCP and DNS operations in a network and how to implement IPSec and virtual private network (VPN) operations in a complex network.

Required:	credits
BCS 120 Fundamentals of Programming I	3
BCS 208 Introduction to Networks	3
BCS 209 Routing and Switching Essentials	3
BCS 320 Enterprise Networking, Security, and Automation	3
BCS 321 Connecting Networks	3
BCS 200 level or higher elective- with permission of the department chair	3

Computer Programming and Information Systems Minor

The Computer Programming and Information Systems minor is available for students who wish to develop a deeper understanding and practical skill sets in programming and software applications. Students selecting this Computer Programming and Information Systems minor will take 18 credit hours of coding and computer applications courses.

Student Learning Outcomes:

- Students will gain skills in programming, develop algorithms using top-down stepwise refinement including competencies in arrays, pointers, strings, classes, data abstraction, inheritance, composition and overloading.
- Students will have hands on experience with excel spreadsheets, access databases and SQL (Structured Query Language).
- Students will use both HTML and CSS to modify the appearance of Web page content and layout.
- Students will acquire a basic understanding of the UNIX system, utilizing the file system, programming language and security system.
- Students will understand the history of networking and applications, voice and data communications, hardware, transmission, network topologies, network analysis, the OSI model, design, implementation, and management issues.

Required Courses:	Credits
CSC 111 Computer Programming I	3
BCS 160 Computers, Society, and Technology	3
CSC 211 Computer Programming II	3
Choose 9 credits out of the following courses	
BCS 215 UNIX Operating Systems	3
BCS 260 Introduction to Database Systems	3
BCS 262 Data Communications	3
BCS/CSC 200 level or higher elective by advisement	3

When it is deemed necessary, substitutions may be made at the discretion of the department chair.

Computer Science Minor

Computer Science is a rapidly growing field and skilled graduates are in high demand. This minor is available to students who have a major other than Computer Science. Students should complete 19-22 credits. Students are not allowed to transfer in more than 6 credits.

Student Learning Outcomes:

- Students will gain fundamental knowledge of computer science theory and software development to produce computing-based solutions.
- Students will design, implement, and test computing-based solutions to meet a given set of computing requirements using computer science theory and software development principles.
- Students will use current techniques, skills, and tools necessary for computing practice.

Required:	(19-22 credits)
CSC 111 Computer Programming I	3
CSC 211 Computer Programming II	3
CSC 229 Data Structures and Algorithms I	3
CSC 251 Discrete Structures	4
CSC 200 level or higher elective by advisement, excluding CSC 375W	6-9

Total Credits: 19-22

Cybersecurity Minor

The minor in cybersecurity is available to students who wish to develop knowledge and skills in computer security principles and applications. This minor consists of 5 classes totaling 15 credits. Four of these five courses are specific computer security courses, and the remaining elective course can be chosen from the SST/CPS/SET courses, Students will learn the cybersecurity concepts along with hands-on experience of security technologies. Students must maintain a cumulative GPA of 2.0 in the minor. All students can participate in this minor except those who are majoring in Security Systems or Cybersecurity.

Student Learning Outcomes:

- Students will acquire a fundamental knowledge of cybersecurity principles, including, confidentiality, integrity, and availability, information assurance, vulnerability assessment, and security design.
- Students will develop the skills needed to identify, analyze, and remediate computer security breaches.
- Students will develop an understanding of security laws, policies, and procedures.

Required:	
SST 115 Digital Systems **OR** any SST, CPS, or SET elective	3
SST 310 Computer Security I	3
SST 311 Computer Security II	3
SST 312 Computer Security III	3
SST 314 Security Law and Policy	3

Data Science Minor

The Data Science minor equips students with the skills to apply mathematical techniques and computer programming to process and analyze large data sets across various fields. This minor is ideal for students from diverse majors who want to enhance their data-driven decision-making abilities, provided they have a solid foundation in mathematics to undertake the required course sequence.

Student Learning Outcomes

- Write computer programs to assist in the analysis and visualization of large data sets
- Apply machine learning techniques to data analysis
- Verify that the insights gained from large data sets are statistically significant

Required Courses	(18 credits)
Course Name	Credits
CSC 111 Computer Programming I	3
CSC 211 Computer Programming II	3
CSC 366 Principles of Data Science*	3
MTH 360 Applied Probability and Statistics*	3
MTH 380 Experimental Design	3
MTH 420 Statistical Data Mining	3

*The following courses have prerequisites outside of this program:

- CSC 366 Principles of Data Science
- MTH 360 Applied Probability and Statistics

Total Required Credits: 18

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

As a part of the SUNY General Education Framework, all first-time full time Freshman at Farmingdale State College (FSC) beginning Fall 2023, are required to develop knowledge and skills in Diversity: Equity, Inclusion, and Social Justice (DEISJ). Students will be able to fulfill this requirement at FSC by taking a specially designated DEISJ course that has been developed by faculty and approved by the DEISJ Review Board. DEISJ-approved courses will be developed in accordance with the guiding principles and criteria outlined below. DEISJ-approved courses may meet other General Education Knowledge and Skills areas and/or core competencies and thus be dually designated. DEISJ-approved courses may also earn other special designations such as those for Applied Learning or Writing Intensive.

Economics Minor

The Economics minor equips students with the foundational skills for higher education in economics and the social sciences, business and law. Students choosing to minor in Economics will take a total of 18 credits, which includes required core courses (9 credits). Students exposed to these economics courses will have skills and ability to compete or increase employability that the marketplace demands.

Student Learning Outcomes:

- Students will demonstrate economic literacy by using economic terminology in everyday life.
- Students will acquire fundamental knowledge and skills to critically evaluate economic/social issues and policies from various perspectives.

Required: (6 credits)

ECO 156 Principles of Economics (Macroeconomics)
ECO 157 Principles of Economics (Microeconomics)

At least one from: (3 credits)

ECO 255 Money and Banking
ECO 260 Intermediate Microeconomics
ECO 262 Managerial Economics

ECO 270 Intermediate Macroeconomics

Any three additional economics courses, 200 level or above, including but not limited to the list below: (9 credits)

ECO 250 Quantitative Analysis for Economics
ECO 259 Contemporary Economic Issues and Problems
ECO 303 Arts and Entertainment Economics
ECO 304 Sports Economics
ECO 310 Health Economics and Policy
ECO 312 Economics of Non-Profit Organizations
ECO 320 Internet and Network Economics
ECO 321 Engineering Economics
ECO 330 Modern Economic Thought
ECO 340 International Trade
ECO 341 International Finance
ECO 342 Financial Economics
ECO 350 Economics of Global Disasters
ECO 358 Economics of Labor
ECO 380 Econometrics
ECO 401 Industrial Organization
ECO 410 Public Finance/Sector Economic
ECO 412 Cost-Benefit Analysis
ECO 420 Economics of Science and Technology
ECO 430 Urban and Regional Economics
ECO 435 Environmental Economics and Policy
ECO 440 Topics in Applied Economics
ECO 441 Economics of Gender
ECO 480 Forecasting
ECO 489 Economic Internship
ECO 490 Economic Research and Reporting (Writing Intensive)
ECO 491 Applied Economic Analysis

English Literature Minor

The English Department offers an undergraduate Literature Minor to students who have completed EGL 101 and EGL 102 and are enrolled in baccalaureate degree programs at Farmingdale State College. The English Literature Minor consists of 18 credits. Students must complete nine core credits and nine elective credits. Students must apply through the English Department, and specific course work must be determined in consultation with a full-time faculty member of the English Department. A minimum cumulative GPA of 2.5 in the English Literature Minor courses is required for awarding of the Minor upon graduation.

Student Learning Outcomes:

- Students will analyze complex literary works within the context of the history and evolution of literary genre
- Students will analyze complex literary works in relation to specific historical, political and cultural contexts
- Students will analyze the interrelationship, both past and present, of complex literary works and disciplines such as philosophy, religion, science, medicine, psychology, sociology, music, art and education
- Students will demonstrate an enhanced understanding of literary terms and forms
- Students will demonstrate an enhanced ability to analyze language
- Students will demonstrate an increased sophistication in the use of language in both oral and written communication
- Students will demonstrate an enhanced ability to critically assess both online and print sources of literary criticism
- Students will demonstrate an enhanced ability to write sustained analysis of complex works of literature that incorporates secondary sources and readings

Core: (9 credits)

Survey Course - One course from the following part one survey courses offered by the Department:

EGL 201 English Literature: Old English through the 18th Century
EGL 203 American Literature: Beginnings to 1865
EGL 206 World Literature: Early Classics

Survey Course - One course from the following part two survey courses offered by the Department:

EGL 202 English Literature: 19th Century to the Present
EGL 204 American Literature: 1865 to the Present
EGL 207 World Literature: The Moderns

Genre Course - One course from the following genre courses offered by the Department:

EGL 210 Introduction to Drama
EGL 212 Introduction to Fiction
EGL 214 Introduction to Poetry

Electives: (9 credits)

Three courses must be chosen from this list; at least two of the three courses must be 300-level:

A third 200-level survey course (see above), in addition to the two core survey courses

EGL 200 Shakespeare
EGL 216 Creative Writing
EGL 222 Women in Literature
EGL 225 Images of Women in Drama
EGL 228 Classics and Mythology in Popular Culture
EGL 232 Immigrant Literature: Voices of Multicultural America
EGL 240 Themes in Science Fiction in Film and Literature
EGL 242 Film and Literature
EGL 244 Classics of Supernatural Film and Literature
EGL 246 Themes in Literature
EGL 250 Young Adult Literature
EGL 266 Fantasy in Literature and Film

EGL 269 The Romantic Arts: Art, Dance, Literature & Music
EGL 302 Nineteenth Century English Novel
EGL 307 Special Topics in Literature
EGL 308 The City in Literature, Art, Film and Theatre
EGL 309 Voices of Black America in Poetry, Prose and Song
EGL 312 Major Authors in American Literature
EGL 314 Major Authors in World Literature
EGL 316 Women in Modern American Literature
EGL 317 Studies in Shakespeare
EGL 319 Modern Drama
EGL 322 Leadership in Fact, Fiction and Film
EGL 323 Major Authors in British Literature
EGL 330 Ancient Greek Tragedy: Aeschylus, Sophocles and Euripides
EGL 331 Death, Madness and Sex: The Victorians

Exercise Science Minor

The Minor in Exercise Science consists of six courses from an approved course list for a total of 20-21 credits. Of the six courses, three are required and three are electives to be selected from the approved courses applicable to exercise science (two of the three at the 300+ level). Students taking this minor will gain a solid foundation in applied exercise sciences, including an exercise based nutrition, exercise physiology, and the application of exercise physiology in a variety of environmental conditions, and the ability to evaluate fitness parameters and prescribe safe and effective exercise regimens for multiple populations. Students who wish to complete the Minor must meet with an advisor from the Nutrition Science & Wellness Department to develop a plan comprised of courses from the approved course list.

Student Learning Outcomes

- Students will develop exercise-based knowledge, skills, and abilities required to perform effectively in graduate studies and fitness career fields.
- Students will apply fundamental human movement principles (anatomical and physiological) from the biological and social science perspectives on human movement and performance.
- Students will become proficient with effective verbal and nonverbal communication skills for use in fitness and exercise science settings.
- Students will identify various health and exercise parameters for relevant human performance evaluation and improvement.
- Students will prepare to attain fitness professional certifications.

About Academic Minors

Farmingdale State College students are invited to enhance their studies with an "Academic Minor." A minor is a cluster of thematically related courses drawn from one or more departments. In addition to department based minors (e.g. computer programming & info systems), interdisciplinary minors are also available (e.g. legal studies).

Academic minors are approved by the College-Wide Curriculum Committee and the Provost. Students must make application for an academic minor through the department offering the minor in conjunction with the Registrar's Office Specific course work must be determined in consultation with a faculty member in the department offering the minor. A statement of successful completion of the academic minor will appear on the student's transcript at the time of graduation.

- A minor is considered to be an optional supplement to a student's major program of study.
- Completion of a minor is not a graduation requirement and is subject to the availability of the courses selected. However, if the requirements for a minor are not completed prior to certification of graduation in the major, it will be assumed that the minor has been dropped. Consequently, the student will only be certified for graduation in their primary major.
- Only students in 4 year baccalaureate programs can apply for a minor.
- A minor should consist of 15 to 21 credits.
- At least 12 credits must be in courses at the 200 level or higher.
- At least 9 credits must be residency credits.
- Specific requirements for each minor are determined by the department granting the minor.
- Students must maintain a minimum cumulative GPA of at least 2.0 in their minor. Some minors may require a higher GPA.
- Students are prohibited from declaring a minor in the same discipline as their major (e.g. one cannot combine an applied math minor with an applied math major). Academic minors may not apply to all curricula.
- Students are permitted to double-count courses.
- Students are only permitted to take more than one minor with appropriate written approval of their department chair or curriculum Dean.

Electives*	**9-11 credits**
BIO 170 Human Anatomy & Physiology with Lab **OR**	
BIO 166 Principles of Human Anatomy & Physiology	4
HPW 415 Exercise Testing & Programming	4
HPW 425 Sport & Exercise Physiology	3

Electives*	**9-11 credits**
BIO 171 Human Anatomy & Physiology II with Lab	4
GRO 300 Biology of Aging	3
HPW 225 Fitness Health and Coaching	3
HPW 310 Sport & Exercise Psychology	3
HPW 320 Strength & Conditioning	3
HPW 405 Exercise & Movement Science	4
NTR 350 Energy & Exercise	3
NTR 365 Sports Nutrition	3

* Select 3 course. Two of which must be at the 300 or 400 level

Total Required Credits: 20-22

Please refer to the General Education, Applied Learning, and Writing Intensive requirement sections of the College Catalog and consult with your advisor to ensure that graduation requirements are satisfied.

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Finance Minor

The Finance minor, consisting of 18 credits, is open to all students. This minor intends to prepare students to work in finance. Finance minor students will gain a fundamental understanding of financial competences that allow them to access the complex problems in the finance industry and implement effective and innovative solutions. To complete the minor, students will be required to take four courses in Business Management plus one additional elective course.

Student Learning Outcomes:

- Students will develop effective communication and critical thinking skills to recognize and resolve problems in a financial context.
- Students will demonstrate the knowledge that firms expect as well as the critical advanced investment analysis and portfolio management skills that are needed in investment management today.
- Students will have the ability to interpret the theoretical concepts used in the finance industry.

Required:	(12 credits)
BUS 291 Investments	3
BUS 307 Corporate Finance	3
BUS 308 Quantitative Techniques in Finance	3
BUS 404 Financial Markets and Institutions	3

Electives (students must choose two)	(6 credits)
BUS 390/391 Selected Topics in Finance	3 - 6
BUS 411 Financial Statement Analysis	3
BUS 421 Advanced Topics in Corporate Finance	3
BUS 473 International Finance for Business II	3
ECO 305 Real Estate Economics and Finance	3
ECO 342 Financial Economics	3
ECO 410 Public Finance	3
MTH 246 Introduction to Financial Mathematics	3
MTH 346 Continuous Time Finance	3
MTH 446 Financial Engineering	3

Total Credits: 18

Francophone Studies Minor

The Francophone Studies Minor is open to all baccalaureate students who wish to deepen their knowledge of the French language and Francophone cultures and civilizations through a focus on France and the French-speaking world. The minor consists of 15 credits, or five 3-credit courses. Students must take FRE 102 (or a higher-level French course with coordinator approval), MLG 304 French Culture and Civilization, and another MLG course related to the French-speaking world. In addition, students must select two courses from the list of eligible courses, which should be chosen with the approval of the program's coordinator. At least one of these courses must be from a discipline beyond the Modern Languages Department.

The minor offers students the opportunity to explore the cultures and histories of France and other Francophone regions and peoples through the study of language, literature, geography, anthropology, history, politics, film, and art. Students are encouraged to study abroad in a French-speaking country, and courses taken abroad may be applied to the minor with the coordinator's approval. Students are required to select at least one and up to two courses from other academic programs to fulfill the minor's learning objectives. There are no restrictions on who can enroll in the minor beyond the requirement to be enrolled in a baccalaureate program at Farmingdale State College.

Student Learning Outcomes:

- Students will acquire knowledge of the French language and an understanding of and appreciation for French and/or Francophone cultures, history, and civilization.
- Students will develop an interdisciplinary appreciation of French-speaking peoples and their contributions to global society through studying Francophone cultures from a variety of perspectives (history, literature, politics, film, etc.).
- Students will develop intercultural skills that will enable them to communicate, work, and interact with people from diverse cultural backgrounds, as well as to travel and study in the French-speaking world.

About Academic Minors

Farmingdale State College students are invited to enhance their studies with an academic minor. A minor is a cluster of thematically related courses drawn from one or more departments. In addition to department based minors (e.g. computer programming & info systems), interdisciplinary minors are also available (e.g. Legal Studies).

Academic minors are approved by the College-Wide Curriculum Committee and the Provost. Students must apply to an academic minor through the department offering the minor in conjunction with the Registrar's Office. Specific coursework must be determined in consultation with a faculty member in the department offering the minor. A statement of successful completion of the academic minor will appear on the student's transcript at the time of graduation.

- A minor is considered to be an optional supplement to a student's major program of study.
- Completion of a minor is not a graduation requirement and is subject to the availability of the courses selected. However, if the requirements for a minor are not completed prior to certification of graduation in the major, it will be assumed that the minor has been dropped. Consequently, the student will only be certified for graduation in their primary major.
- Only students in 4 year baccalaureate programs can apply for a minor.
- A minor should consist of 15 to 21 credits.
- At least 12 credits must be in courses at the 200 level or higher.
- At least 9 credits must be residency credits.
- Specific requirements for each minor are determined by the department granting the minor.
- Students must maintain a minimum cumulative GPA of at least 2.0 in their minor. Some minors may require a higher GPA.
- Students are prohibited from declaring a minor in the same discipline as their major (e.g. one cannot combine an applied math minor with an applied math major). **Academic minors may not apply to all curricula**.
- Students are permitted to double-count courses.
- Students are only permitted to take more than one minor with appropriate written approval of their department chair or curriculum Dean.

Required	(# credits)
FRE 102 French ll (Elementary)	3
MLG 304 French Culture and Civilization	3
MLG 303, MLG 307, or MLG 316	3

Two Courses from the following *	(6 credits)
ANT 211 Caribbean Cultures	3

ART 202 Survey of Art History: Early Renaissance to the Present	3
ART 304 Global Art History	3
EGL 207 World Literature: The Moderns	3
EGL 235 Caribbean Literature	3
FRE 203 French lll (Intermediate)	3
FRE 204 French lV (Intermediate)	3
FRE 301 French V (Advanced)	3
FRE 302 French Vl (Advanced)	3
GEO 223 Africa and Its People	3
GEO 231 Europe and Its Peoples	3
HIS 201 Modern African History	3
HIS 215 The World of Islam	3
HIS 217 From Constantine to Columbus: Western Civilization in the Middle Ages	3
HIS 280 Caribbean History	3
HIS 315 Imperialism: A Modern History	3
MLG 303 French Cinema	3
MLG 307 French and Francophone Fiction and Film	3
MLG 308 Arabic Culture and Civilization	3
MLG 316 French Fables and Folktales	3
MLG 326 French and Francophone Literature Through the Arts	3
POL 262 Global Politics	3
POL 267 Politics of the Muslim World	3
POL 372 Politics of Europe	3
POL 374 Politics of Africa	3
RAM 303 Research Experience (Francophone focus)	3

* Two additional courses related to French language and/or Francophone history and culture:

- At least once course must be chosen from another discipline other than MLG- or FRE- designated courses.
- Only one 100-level course may count toward the minor.

Total Credits: 15

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Geographic Information Systems Minor

Skill in the use of geographic information systems is useful in a wide variety of professions. A GIS minor will allow students from a variety of disciplines to develop professional skills that complement the skills developed in their major course work. The GIS minor is flexible so that students can tailor their course choices to accommodate individual needs and interests. A broadly-based approach to selecting minor courses can be appropriate for students whose majors are highly specialized or narrowly focused.

Student Learning Outcomes:

- Students will be able to perform basic capture, processing, storage and analysis of geospatial data.
- Students will be able to create effective, aesthetically-pleasing visualizations of geospatial data.
- Students will be able to utilize geographic information systems to answer meaningful research questions in at least one area of application.

Required:	(10 credits)
GIS 101 The Digital Earth OR	
GEO 110 Maps and Maps Analysis	3
GIS 222 Geovisualization I	4
GIS 321 Geovisualization II OR	
GIS 322 Geovisualization II	3

Students must earn at least six additional credits selected from any combination of 300-level or 400-level GIS courses.

Total Credits: 16

1. At least nine credits must be taken at Farmingdale State College

2. Students must maintain an overall GPA of 2.5 for all courses taken for the minor

3. All courses must be in Geographic Information Systems (GIS prefix); any course substitutions must be approved by the minor coordinator in advance, in consultation with a GIS advisor.

Geography Minor

The History, Politics and Geography Department offers an undergraduate Minor in Geography to all students. The Geography minor can complement most majors in the social sciences, physical sciences, biological sciences, and technical disciplines. The geography minor is flexible so that students can tailor their course choices to accommodate individual interests. A broadly based approach to selecting minor courses can be appropriate for students whose majors are highly specialized or narrowly focused. Alternatively, students may choose to fulfill geography minor requirements with a particular content emphasis, such as an interest in environmental issues or urban and regional planning. Looking through course choices and talking with geography staff can make earning the geography minor an important enhancement to one's academic program.

Student Learning Outcomes:

- Students will apply basic foundational and specialized geographic knowledge about both the physical and human worlds, and identify notable areas of interconnectedness between those worlds at different scales

- Students will effectively communicate geographical ideas using common media from the discipline, including maps, oral presentations, text, photos, illustrations, flowcharts, tables, graphs, graphics
- Students will collect, organize, analyze, and synthesize geospatial information about people, places, and environments

Required Courses	(15 credits)
GEO 110 Maps and Map Analysis	3

Students must earn at least 12 additional credits selected from the following:

Physical Geography or Geographic Information Systems	(3-4 credits)
GEO 201 Physical Geography **OR**	3
GIS 222 Geovisualization I	4

Human Geography	(3 credits)
GEO 211 The World and Its Peoples **OR**	
GEO 222 Human Geography **OR**	
GEO 231 Europe and Its Peoples	3
Select (6) credits of geography courses at the 300-level	6

Total Credits: 15-16

1. At least 9 credits (3 courses) must be taken at Farmingdale.

2. Students must maintain an overall GPA of 2.5 for all courses taken for the minor.

3. Any course substitutions must be approved by the minor coordinator in advance, in consultation with a geography advisor.

History Minor

The History minor is designed for students who are interested in deepening their knowledge of American, Western, and World History in order to support their long-term career goals. Selection of courses will depend on the interest of the student. Students seeking to gain an M.A. in Education will be particularly well-served by this minor program, as will students interested in pursuing post-baccalaureate degrees in Law, History, or Government/International Relations. The history minor consists of 15 hours of history courses with at least 2 courses at 300 level or above.

Student Learning Outcomes:

- Students will demonstrate basic knowledge of important historical events in a particular historical era and geographical area within a broader global context.
- Students will demonstrate awareness of historiography and historical interpretive differences.
- Students will explore and employ proper historical research techniques with both documentary and digital resources in completing historical research.
- Students will be able to evaluate and interpret primary and secondary historical sources and use these properly in writing about history.
- Students will construct cogent historical arguments and convey them clearly in written form and oral presentations.

Required:

15 credits of History (HIS) courses; Any HIS course is eligible;
only one course at the 100-level is allowed. At least 6 credits must be at the 300 level or above.

Students may also choose up to two of the courses listed below:

GEO 211 The World and Its Peoples	3
GEO 222 Human Geography	3
GEO 223 Africa and Its People	3
GEO 231 Europe and Its Peoples	3
GEO 232 North America and Its Peoples	3
GEO 340 Geography and Imagination	3
GIS 301 GIScience	3
POL 250 American Politics	3
POL 340 Constitutional Law & Politics	3
POL 344 DEI History, Politics, and Policy	3
POL 390 Environmental Politics	3

15 credits

International Business Minor

The International Business minor, consisting of 15 credits, is interdisciplinary and open to all students aside from students majoring in Global Business Management. The minor intends to prepare students to work in the international business environment and the challenges such an environment provides. International Business minor students will gain a fundamental understanding of global fluency competences that allow them to assess the complex problems in global business settings and implement effective and innovative solutions. To complete the minor, students will be required to take three courses in Global Business Management plus two additional elective courses.

Student Learning Outcomes:

- Students will develop effective communication and critical thinking skills to recognize and resolve problems in a global context.
- Students will demonstrate an appreciation of multiple cultures and learn to work effectively in a multi-cultural and diverse environments.
- Students will have the ability to interpret the theoretical concepts used in the global market environment.

Required:	(9 credits)
BUS 280 International Business	3
BUS 322 International Management	3
BUS 320 International Marketing	3
Choose one elective from the following courses	**(3 credits)**
BUS 321 International Law	3
BUS 366 International Human Resource Management	3
BUS 473 Global Finance	3
BUS 494W Seminar in Global and International Business	3
In consultation with their advisor, one elective from the following courses	**(3 credits)**

ANT 110 Sociocultural Anthropology	3
ECO 340 International Trade	3
ECO 341 International Finance	3
GEO 211 The World and Its Peoples	3
GEO 322 Cultural Geography	3
GEO 325 Globalization & Sustainability	3
HIS 233 Comparative Religions and Culture	3
MLG 300 International Cinema	3
POL 370 International Relations	3
PSY 265 Culture and Cognition	3
PSY 304 Multicultural Psychology	3
SOC 350 Global Social Change	3

Italian Studies Minor

The Italian Studies minor is an interdisciplinary program whose objective is to introduce students to the language, culture, geography, and history of Italy contextualizing it within Europe and the Mediterranean. The program consists of 15 credits (five 3-credit courses). Students are required to take MLG 306 (Italian Culture and Civilization), ITA 122 (Italian II), and an Italian MLG of their choice. Students are required to choose two additional courses among the eligible ones. At least one of the additional courses must be chosen from a discipline other than MLG or ITA. Students must consult with the program's coordinator prior to enrolling in the classes. Courses transferred from other institutions, taken abroad, or acquired in an Italian-focused internship will be considered by the coordinator to determine appropriateness for the minor.

Student Learning Outcomes:

- Students will acquire an understanding and appreciation of Italian language, culture, geography, and history and of the broader Mediterranean and European culture it belongs to.
- Students will develop intercultural competence that will prepare them to communicate, work, and act with people from different and with diverse cultural backgrounds.
- Students will acquire interdisciplinary perspectives and knowledge and develop a personal understanding of the world through an individualized curriculum.

If interested please fill out the Application for an Academic Minor and return it to Registrar.

Required:	Credits
MLG 306 Italian Culture and Civilization	3
ITA 122 Italian II (Elementary)	3
Chose **one** of the following courses: MLG 201, MLG 301, MLG 311, MLG 318, MLG 323, MLG 324	3

Two additional courses for the minor may be chosen from the following (at least one course must be chosen from a discipline other than MLG or ITA):

Choose From:	Credits
ART 202 Survey of Art History: Early Renaissance to the Present	3
ART 242 Italian Renaissance Art	3
GEO 231 Europe and Its People	3
HIS 217 From Constantine to Columbus Western Civilization in the Middle Ages	3
HOR 275 Italian Gardens: Art and Nature	3
ITA 223 Italian III (Intermediate)	3
ITA 224 Italian IV (Intermediate)	3
ITA 301 Italian V (Advanced)	3
ITA 302 Italian VI (Advanced)	3
MLG 201 Italian Food, Culture, and History	3
MLG 301 Italian Cinema (In English)	3
MLG 311 Italian American Experiences	3
MLG 318 Italy from Text to Cinema	3
MLG 323 The Holocaust in Italian Cinema and Culture	3
MLG 324 Italian Horror Films: Sex, Murder and Social Criticism	3
POL 265 Comparative Politics	3
POL 273 Italian Politics and Society	3
POL 372 Politics of Europe	3
RAM 303 Research Experience (Italian Focus)	3
SOC 329 Race and Ethnic Relations	3
SOC 263 Immigration Past and Present	3

Students are encouraged to study abroad in Italy. Courses taken in Italy will be reviewed by the coordinator and considered toward the minor requirements.

Latin American Studies Minor

The Latin American Studies Minor is designed for students who wish to deepen their knowledge of Spanish and Latin American Culture and Civilization, with focus on Spain and all Latin American Countries. The minor offers students of all majors an opportunity to explore Spanish speaking countries from different perspectives of history, politics, geography, society, literature, culture, art, film, science, economics, and business as well as language. Students are encouraged to study abroad in Spain or in Latin America.

The Latin American Studies Minor consists of 18 credits (six 3-credit courses). Students are required to take three credits MLG 305 Spanish and Latin American Culture course and five Latin American component courses chosen with the approval of the program's coordinator. Students need to take 3 language basic courses for this minor, Spanish 101 to 243. Courses taken abroad or in Latin American-focused internship will be considered by the coordinator to determine appropriateness for the minor.

Student Learning Outcomes:

- Students will gain knowledge of Spanish and Latin American culture from historical, literary, and artistic perspectives.

- Students will acquire an interdisciplinary appreciation of the importance of Latin America and its role and contributions to the global society - past and/or present.
- Students will develop intercultural competencies that will prepare them for travel, business, or study in Spain or Latin America.

If interested please fill out the Application for an Academic Minor and return it to Registrar.

Required:
MLG 305 Hispanic and Latin American Culture and Civilization
SPA 243 Spanish III (Intermediate)

The four additional courses for the minor may be chosen from the following:

ART 303 MesoAmerican Art History
ANT 211 Caribbean Cultures
HIS 280 Caribbean History
HIS 312 Latin American Popular Culture in the 20th Century
MLG 302 Spanish and Latin American Cinema
MLG 310* Latin American Women Writers
MLG 314 Hispanic Fiction to Film
MLG 315 Art, Culture and Civilization of Spain
MLG 320* Latino Writers in the U.S.
MLG 322 The Latin American Novel
SPA 244 Spanish IV (Intermediate)

*Students can take a maximum of two literature courses.

Legal Studies Minor

This minor is intended for students who are interested in the study of the law in their undergraduate education and may serve as an introduction for students who are interested in pursuing a legal career. The Legal Studies minor consists of 15 credits (five 3-credit courses). Students will be required to take the introductory course in legal studies (POL 110: Introduction to Legal Studies) plus four additional courses chosen with the approval of the program's coordinator. Alternatively, the student may elect to substitute either a law focused internship or directed independent study for one of these four additional courses.

Student Learning Outcomes:

- Students will gain f undamenta l knowledge of the nature and function of law and of specific legal principles.
- Students will acquire an interdisciplinary appreciation of the importance of legal rights and obligations in society.
- Students will develop competencies that will prepare them for further study in law or employment assisting in a legal environment.

Required:
POL 110: Introduction to Legal Studies

The four additional courses for the minor may be chosen from the following:

AVN 300 Government in Aviation
AVN 400 Aviation Law
BIO 455 Validation and Regulatory Affairs
BUS 202 Business Law I
BUS 230 Environmental Law
BUS 304 Business Law II
BUS 321 International Law
BUS 352 Employment Law
BUS 399 Real Estate Law
BUS 406 Business Organization Law
CON 361 Government Building, Environmental Codes and Regulations
CRJ 204 Criminal Law
CRJ 205 Criminal Procedure Law
CRJ 404 Cyber Law and Electronic Espionage
ECO 312 Economics of Non-Profit Organizations
POL 250 American National Government
POL 251 State and Local Government
POL 310 Introduction to Political Theory
POL 399 NYS Legislative Internship
SMT 311 Sport Law

Management Information Systems Minor

The Management Information Systems minor is available for students who wish to develop a deeper understanding and practical skill sets in information systems. Students selecting this Management Information Systems minor will take 18 credit hours of coding and computer applications courses.

Student Learning Outcomes:

- Students will gain skills in programming, develop algorithms using top-down stepwise refinement including competencies in arrays, pointers, strings, classes, data abstraction, inheritance, composition and overloading.
- Students will have hands on experience with excel spreadsheets, access databases and SQL (Structured Query Language).
- Students will understand practical skill in MIS regarding the strategic role of information systems and the organizational, managerial and industrial changes driving e-business, globalization and the emerging digital firm.
- Students analyze the main function of the systems analyst, determine project feasibility and manage design activities.
- Students create and use data flow diagrams, explain how a database management system works and describe, plan, and document system requirements. They conduct project planning, scheduling, monitoring, and reporting.

Required:	Credits
CSC 111 Computer Programming I	3
BCS 160 Computers, Society, and Technology	3
BCS 260 Introduction to Database Systems	3
BCS 300 Management Information Systems	3
BCS 301W Systems Analysis & Design	3

BCS 3XX Level or higher with permission of Chair	3

Middle Eastern and Islamic Studies Minor

The Middle Eastern and Islamic Studies minor is designed for students who are interested in deepening their knowledge of the languages, geography, religions, cultures, history, and politics of the Middle East and the Islamic world. Students seeking employment in government or non-governmental organizations which operate in the Middle East will be particularly well-served by this minor program, as will students who are preparing for careers in education, law enforcement, and other fields.

Student Learning Outcomes:

- Students will understand the major tenets of Islam and how it shapes the history and politics of the Muslim world.
- Students will assess the role of religion in the Middle East and North Africa (MENA) as well as South and Central Asia.
- Students will apply social science concepts and research methods to further their understanding of world religions, especially Islam, Christianity, and Judaism.
- Students will identify the defining characteristics of the Middle East and North Africa (MENA) as a distinct world region, including its diverse physical geography, cultural traits, social systems, political structures, and history.

ARA 131 Arabic I	3
ARA 132 Arabic II	3
ARA 233 Arabic III	3
ARA 234 Arabic IV	3
HIS 117 World Civilization I	3
HIS 118 World Civilization II	3
GEO 211 The World and Its Peoples	3
HIS 212 Modern World	3
HIS 215 The World of Islam	3
HIS 216 History of Central Asia	3
HIS 217 From Constantine to Columbus	3
HIS 233 Comparative Religions and Cultures	3
POL 370 International Relations	3
POL 371 Geopolitics	3
POL 376 Politics of the Middle East	3
POL 392 Religion and Politics	3
MLG 308 Arabic Culture and Civilization	3
MLG 309 Arabic Cinema	3
MLG 317 The Arab-American Experience	3
HIS 318 Israel: A History of the Jewish State	3
HIS 341 Terrorism and the Modern World	3
RAM 303 Research Experience	3

Notes: At least 12 credits (4 courses) must be in courses at the 200-level or higher. At least 9 credits (3 courses) must be taken at Farmingdale State College.

Organizational Leadership Minor

The organizational leadership minor is open to all baccalaureate students and consists of six courses, three of which are required, for a total of 18 credits. To complete the minor, students will complete three additional specified elective courses that are offered within and outside the Business Management Department.

Student Learning Outcomes:

- Students will gain f undamenta l knowledge of the nature and function of leadership, team building, and ethics
- Students will acquire an interdisciplinary appreciation of the importance of leadership across one or more fields of study including politics, history, sociology, health care, and management.
- Students will develop competencies that will prepare them for further study in organizational behavior and management.

Required:
BUS 209 Teamwork & Team Building
BUS 360 Leadership Theories & Practices
BUS 460 Leadership & Ethics
Electives (3) chosen from the following:
BUS 305 Entrepreneurship
BUS 322 International Management
BUS 311 Organizational Behavior
BUS 379-382 Business Internship I
BUS 479-482 Business Internship II
DEN 409 Dental Hygiene Practicum
ECO 262 Managerial Economics
EGL 322 Leadership in Fact, Fiction and Film
HIS 335 Gender and Technology in Historical Perspective
HIS 332 American Military History
HOR 370 Landscape Professional Practices
MLS 325W Laboratory Management and Informatics
NUR 404 Nurse as Advocate and Change Agent
PHI 205 Ethics
PHI 207 Business Ethics
POL 110 Introduction to Legal Studies
POL 399 New York State Legislative Internship
PSY 330 Organizational Training and Development
SMT 440-443 Sport Management Internship I
SMT 445-448 Sport Management Internship II
SOC 303 Sociology of Work & Occupation

Ornamental Horticulture Minor

The Department of Urban Horticulture and Design offers an undergraduate minor in Ornamental Horticulture to all baccalaureate degree students at

Farmingdale State College. The field of Ornamental Horticulture is a diverse array of growers, retailers, designers, installers, and maintenance personnel serving public and private gardens, homeowners, golf courses, parks and recreational facilities.

The minor is designed to give the student a basic core of horticultural skills that can be amplified through a series of elective courses. Students who wish to complete this minor must be matriculated in a baccalaureate program at Farmingdale State College and must apply through the Department of Urban Horticulture and Design.

Student Learning Outcomes:

- Students will acquire knowledge of plant science, horticulture and landscape design complemented by practical skills.
- Students will grow to appreciate the diversity of horticulture and landscape design through exposure to foundation courses and specialized electives.
- Students will gain familiarity with horticulture and landscape design to prepare them for further study, entry into the workforce, or personal recreation.

Required:	credits
HOR 110 Horticulture I	3
HOR 111 Horticulture II - Growth and Development of Cultivated Plants	3
HOR 112 Soils: The Foundation of Life	3

12 credits must be selected from Horticulture courses at the 200-level or higher

Notes: The selection of electives should be done in consultation with a full-time member of the Department. Students must maintain a cumulative GPA of 2.0 in their horticulture courses.

Physics Minor

The physics minor is designed for students who want to add a concentration in physics to their studies. The critical thinking, data management, and analytical problem solving skills taught in physics courses are important to a wide variety of career paths, making physics minors more attractive to potential employers. Students who are interested in pursuing graduate education in biology, chemistry, engineering, finance, mathematics, or medicine will be particularly well served by this minor, as will be students who intend to transfer to pursue a physics major elsewhere in SUNY. The physics department at Farmingdale places a substantial value on performing practical physics research, and students may count academic credits from physics research towards a minor.

Student Learning Outcomes:

- Students completing the Physics Minor will have been exposed to classical as well as modern physics, through coursework and laboratory exercises. They will be proficient in synthesizing information and the solution of problems commensurate with senior level physics.
- Students completing the Physics Minor will be experienced in an area of basic physics research, and they will be able to articulate the results of that research through papers, poster sessions, and/or talks.

Required:	(11 credits)
PHY 143 General Physics I (Calculus)	4
PHY 144 General Physics II (Calculus)	4
PHY 333 Modern Physics	3
Nine credits of the following courses:	**(9 credits)**
PHY 255 Oscillatory Motion and Waves	3
PHY 310 Analytical Mechanics	3
PHY 323 Electromagnetic Theory	3
PHY 334 Modern Physics Lab	1
PHY 356 or MTH 356 Mathematical Methods in Math and Physics	3
PHY 420 Optics	3
PHY 480 Physics Research I	3
PHY 481 Physics Research II	3
RAM 303 Research Experience	3

Politics Minor

The politics minor is designed for students who are interested in deepening their knowledge of international affairs, government, policy-making, and the political process in order to support their long-term career goals. Students seeking employment in local, state, or national government or non-governmental organizations which interact with government agencies will be particularly well-served by this minor program.

Student Learning Outcomes:

- Students will describe key ideas and concepts underlying politics in-theory and in-practice
- Students will evaluate how power influences institutions, political processes, and policy outcomes
- Students will identify and explain the role of key political actors, institutions, and processes at local, state, national, and global level
- Students will analyze the history of normative political thought and define contested concepts such as justice and liberty
- Students will evaluate issues underlying contemporary political debates
- Students will be able to contrast major political and socioeconomic systems, institutions, and policies around the world
- Students will apply critical thinking skills and methods of political science to understand how governments and institutions interact with one another
- Students will conduct research and synthesize primary and secondary sources to better understand past and present political dynamics
- Students will communicate succinctly and effectively how political concepts and theories explain ongoing political developments in the United States and around the world

Required Courses	(18 credits)
POL 105 Introduction to Politics	3
POL 250 American Politics **OR**	
POL 251 State and Local Government	3
POL 262 Global Politics **OR**	
POL 265 Comparative Politics **OR**	
POL 370 International Relations	3
Any other POL course at the 200-level or higher	9

Total Credits: 18

Public Administration and Policy Minor

The Public Administration and Policy minor is designed for students seeking to understand how government institutions function, how policies take

shape, and how these processes shape the sectors in which they will work. Many programs on campus focus on policy and administrative processes within specific fields , and this minor complements those programs by grounding students in the broader concepts of political science and public administration.

Student Learning Outcomes

Students will:

- Use methods and concepts of political science to understand, implement, and evaluate public policies and programs at all levels of government
- Apply knowledge of policy and administrative processes to deepen understanding of their chosen professional sector
- Analyze the political, social, and economic contexts that shape public administration and policy decisions

About Academic Minors

Farmingdale State College students are invited to enhance their studies with an "Academic Minor." A minor is a cluster of thematically related courses drawn from one or more departments. In addition to department based minors (e.g. computer programming & info systems), interdisciplinary minors are also available (e.g. legal studies).

Academic minors are approved by the College-Wide Curriculum Committee and the Provost. Students must make application for an academic minor through the department offering the minor in conjunction with the Registrar's Office Specific course work must be determined in consultation with a faculty member in the department offering the minor. A statement of successful completion of the academic minor will appear on the student's transcript at the time of graduation.

A minor is considered to be an optional supplement to a student's major program of study.
Completion of a minor is not a graduation requirement and is subject to the availability of the courses selected. However, if the requirements for a minor are not completed prior to certification of graduation in the major, it will be assumed that the minor has been dropped. Consequently, the student will only be certified for graduation in their primary major.
Only students in 4 year baccalaureate programs can apply for a minor.
A minor should consist of 15 to 21 credits.
At least 12 credits must be in courses at the 200 level or higher.
At least 9 credits must be residency credits.
Specific requirements for each minor are determined by the department granting the minor.
Students must maintain a minimum cumulative GPA of at least 2.0 in their minor. Some minors may require a higher GPA.
Students are prohibited from declaring a minor in the same discipline as their major (e.g. one cannot combine an applied math minor with an applied math major). Academic minors may not apply to all curricula.
Students are permitted to double-count courses.
Students are only permitted to take more than one minor with appropriate written approval of their department chair or curriculum Dean.

Required Courses	(15 credits)
POL 115 Introduction to Public Policy	3
POL 250 American Politics **OR**	
POL 251 State and Local Government	3
POL 264 Public Administration	3

Electives (choose from any of the following courses)	(6 credits)
AVN 326 Airport Security Management	3
AVN 417 Homeland Security in Aviation	3
BCS 375 Legal and Ethical Issues in Database and System Administration	3
BIO 340 Biopharmaceutical Regulation	3
CIV 410 Transportation Engineering	3
CIV 412 Highway Engineering	3
CRJ 350 Courts and the Judiciary	3
ECO 306 Cannabis Economics: Markets and Policy	3
ECO 310 Health Economics and Policy	3
ECO 410 Public Finance	3
ECO 430 Urban and Regional Economics	3
ECO 435 Environmental Economics and Policy	3
GEO 311 Geography of Long Island	3
GIS 301 GIScience	3
GIS 351 GIS and Public Health	3
GRO 330 Public Policy and Aging	3
GRO 410 Health Care Insurance	3
GRO 420 Long Term Care Administration	3
HPW 435 Healthcare Administration	3
POL 330 21st Century Energy Policy	3
POL 344 DEI: History, Politics, and Policy	3
POL 350 Administrative Law	3
POL 364 Advanced Public Administration	3
POL 390 Environmental Politics	3
SMT 320 Athletic Administration	3
SST 314 Cybersecurity Law and Policy	3
STS 342 Food and Nutrition Policy in the US	3

Sociology Minor

The Sociology and Anthropology Department offers an undergraduate minor in Sociology to all baccalaureate degree students at Farmingdale State College. Employing the concepts, theories and research methodologies of sociology, an academic minor in sociology can provide students with useful tools for the workplace and enhance their understanding of themselves and society. Students who would like to minor in Sociology should apply through the Sociology and Anthropology Department. The Sociology minor consists of 18 credits. In order to graduate with the Sociology minor, students must also have a cumulative GPA of 2.5 in their qualified sociology courses.

Student Learning Outcomes:

- Students will demonstrate sociological understandings of phenomena, for example, how individual biographies are shaped by social structures, social institutions, cultural practices, and multiple axes of difference and/or inequality.

- Students will demonstrate familiarity with major sociological concepts and vocabulary
- Students will understand and apply several of the major classical and/or contemporary perspectives in social theory.
- Students will demonstrate knowledge of some of the key substantive areas within the field of sociology.
- Students will demonstrate an understanding of several of the major social science research methodologies.
- Students will demonstrate critical thinking by analyzing and evaluating social, political, and/or cultural arguments.

Core:	(9 credits)
SOC 122 Introduction to Sociology OR	
SOC 223 Social Issues and Institutions	3
SOC 360 Sociological Theory	3
SOC 366 Sociological Research Methods	3

Any 200 level or higher Sociology Electives (choose from the following courses):
(9 credits)

RAM 303 Research Experience	3
SOC 200 Introduction to Women's Studies	3
SOC 201 Sociology of Education	3
SOC 220 Sociology of Aging	3
SOC 224 Urban Sociology	3
SOC 225 Sociology of the Family	3
SOC 228 Society and Health	3
SOC 229 Race and Ethnic Relations	3
SOC 231 Multiculturalism	3
SOC 235 Mass Media and Popular Culture	3
SOC 236 Sociology of the Military	3
SOC 237 The Sociology of Popular Music	3
SOC 238 Youth Culture	3
SOC 240 Gender and Social Change	3
SOC 245 Technology, Society and Social Change	3
SOC 270-279 Topics in Sociology	3
SOC 282 Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer + (LGBTQ+) Studies	3
SOC 283 Sex, Gender and Sexuality	3
SOC 301 The Sociology of Violence	3
SOC 303 Sociology of Work and Occupation	3
SOC 304 Sociology of Leadership	3
SOC 305 Culture and Technology	3
SOC 309 Sport in Society	3
SOC 311 African American Leadership	3
SOC 325 Social Inequality	3
SOC 326 Visual Sociology	3
SOC 329 Social Movements	3
SOC 330-339 Seminar in Sociology	3
SOC 342 Deviance, Crime, Sex and Drugs	3
SOC 350 Global Social Change	3
SOC 351 Global Health Systems	3
SOC 352 Environmental Sociology	3
SOC 361 Gender Theory	3
SOC 363 Immigration Past and Present	3
SOC 407 Field Research in Sociology	3
SOC 480-482 Research Internship I	3
SOC 485-487 Research Internship II	3

Sport Management Minor

The Sport Management minor is available to all baccalaureate majors, except Sport Management. The Sport Management minor is an undergraduate minor which consists of 18 credits - three required SMT courses, 9 credits of SMT courses at the 200-level or higher, or two SMT courses at the 200-level or higher and SOC 309 Sport in Society, or two SMT courses at the 200-level or higher and ECO 304 Sports Economics. The selection of electives must be done in consultation with a full-time member of the Department.

Student Learning Outcomes:

- Students will have knowledge of the global and complex sports industry.
- Students will have knowledge of integration of the special nature of sports, management and marketing theory, and administrative principles.
- Students will be able to demonstrate competency in the management and leadership dimensions of sport.
- Students will be regular contributors to sport management and/or related fields.
- Students will exhibit an understanding of the necessity for personal integrity, ethical behavior, cultural awareness and lifelong learning.

Required:	(9 credits)
SMT 110 Introduction to Sport Management	3
SMT 225 Sport Marketing	3
SMT 320 Athletic Administration	3
Electives:	(9 credits)

Three Sport Management (SMT) courses at the 200- level or higher (includes RAM 303)

OR

Two Sport Management (SMT) courses at the 200-level or higher and SOC 309 Sport in Society

OR

Two Sport Management (SMT) courses at the 200-level or higher and ECO 304 Sports Economics

Web Development Minor

The Web Development minor is available for students who wish to develop a deeper understanding and practical skill sets in web development. Students selecting this Web Development minor will take 18 credit hours of coding, web development and computer applications courses.

Student Learning Outcomes:

- Students will gain skills in programming, develop algorithms using top-down stepwise refinement including competencies in arrays, pointers, strings, classes, data abstraction, inheritance, composition and overloading.
- Students will have hands on experience with excel spreadsheets and access databases.
- Students analyze the structure of an HTML document understanding page structures with sectioning elements.
- Students will create lists for grouping content and links, acquiring the skill to link to files on the same or a different Website.
- Students create websites and use CSS 3 to create interfaces with toolbars, animations, buttons, forms, lists, events and themes.

Required:	(21 credits)
CSC 111 Computer Programming I	3
BCS 130 Website Development I	3
CSC 211 Computer Programming II	3
BCS 240 Website Development II	3
BCS 377 Web Development Frameworks	3
BCS/CSC 200 Level or Higher Elective*	3

*To be determined in consultation with the Department Chair

When it is deemed necessary, substitutions may be made at the discretion of the Department Chair.

Women, Gender, and Sexuality Studies Minor

Women, Gender, and Sexuality Studies (WGSS) is an interdisciplinary program of study that examines the intricate ways in which gender relations shape the world in which we live. Courses in this program analyze how categories such as race, ethnicity, class, gender, and sexual identity intersect and inform our social experiences. This program places emphasis on feminist perspectives for achieving social justice and gender equity. The WGSS minor prepares students for types of employment that emphasize or require strong writing skills, analytical and critical thinking, research skills, reading comprehension, and oral communication.

The minor compliments any major degree, preparing students to work in diverse environments where they serve the public. The Women, Gender, and Sexuality Studies minor is particularly useful for those who will major in: Business Management, Criminal Justice, Dental Hygiene, Engineering, Nursing, Professional Communications, Psychology, Sport Management, and Science, Technology, and Society.

Consisting of 15 credits, students enrolled in the Women, Gender, and Sexuality Studies minor program must maintain a cumulative GPA of 2.5 in their qualified WGSS courses.

Student Learning Outcomes:

- Students will show how critical analysis of gender and sexuality contributes to an understanding of the historical and contemporary formations of patriarchy, heteronormativity, and gender normativity.
- Students will demonstrate familiarity with major concepts and vocabulary in the fields of Gender and Sexuality Studies
- Students will demonstrate a knowledge base about women's and LGBTQ+ people's role in history — their contributions, oppression, and resistance.
- Students will describe the manner in which race, class, gender, and sexuality intersect.
- Students will demonstrate an understanding of women's and LGBTQ+ people's experience in historical and cultural contexts, both nationally and globally.
- Students will define and describe a range of theories that underlie feminist and queer analysis, understanding their similarities and differences.

Required: (6 credits)	credits
SOC 200 Introduction to Women's Studies*	3
SOC 383 Sex, Gender, and Sexuality	3

Three courses from the following:	(9 credits)
ANT/SOC 240 Gender and Social Change	3
SOC 282 Introduction to LGBTQ+ Studies	3
SOC 325 Social Inequality	3
SOC 344 Sociology of the Body	3
SOC 361 Gender Theory	3
EGL 222 Women in Literature	3
EGL 225 Images of Women in Drama	3
EGL 316 Women in Modern American Literature	3
ECO 441 Economics of Gender	3
HIS 160 Exploitation and Sexploitation in World History	3
HIS 222 Women in U.S. History	3
HIS 335 Gender and Technology in Historical Perspective	3
MLG 310 Latin American Women Writers	3
POL 360 Women in Comparative Development	3
PSY 230 Gender Psychology	3
PSY 238 Human Sexuality	3
PSY 307 Psychology of Women	3
RAM 303 Research Experience	3

* Students may substitute SOC 200: Introduction to Women's Studies with SOC 282: Introduction to LGBTQ+ Studies. This is subject to approval of the

department chair. If this substitution is made, this course will not count towards general elective requirements.

Total Credits: 15

COURSE INDEX

AUTOMOTIVE TECHNOLOGY (AET)

AET 101 Internal Combustion Engine Theory and Servicing
This is a theory/laboratory course designed to introduce the student to basic heat engine types, their physical configurations and various engine operating cycles. Analytic pressure-volume diagrams are utilized to illustrate the effects of gasoline engine design on performance and combustion requirements. Topics discussed include design, construction, inspection techniques and servicing of the internal combustion engine and its components. Laboratory activities are performed to provide relevant hands-on experience to the students. Also engine aspiration, combustion using the principles of fluid dynamics and thermodynamics, volumetric efficiency and fuel metering systems will be discussed in this course. Corequisite(s): AET 101L
Course Offered: Fall, Summer
Credits: Credits:3 (2,2)

AET 104 Combustion Engine Theory
This is a theory course designed to introduce the student to basic heat engine types, their physical configurations and various engine operating cycles. Analytic pressure-volume diagrams are utilized to illustrate the effects of gasoline engine design on performance and combustion requirements. Engine-vehicle performance parameters are analyzed, utilizing individual and group problem solving techniques.
Course Offered: Fall, Summer
Credits: Credits:2 (2,0)

AET 105 Fuel Systems - SI Engines
This is a theory/laboratory course developed to give the student a basic understanding of spark ignited internal combustion engine fuel systems. Topics discussed include engine aspiration and combustion using the principles of fluid dynamics and thermodynamics as they apply to the intake, exhaust, volumetric efficiency and fuel metering systems. Engine air/fuel requirements are examined along with state of the art fuel delivery systems (carburation and fuel injection), with consideration given to fuel economy and exhaust emissions. Performance characteristics of SI Engines utilizing alternate types of fuels are also examined. Related laboratory activities and demonstrations are included in the required laboratory section (AET105L).
Course Offered: Summer
Credits: Credits:2 (1,2)

AET 106 Suspension and Control Systems
This is a theory/laboratory course designed to provide a thorough understanding of the design, construction and operation of automotive chassis and suspension systems. Topics will include a study of the vehicle frame, suspension, steering, wheels, tires and braking systems. Emphasis is directed to the analysis of the vehicle's systems during operation. Related laboratory activities and demonstrations are included in the required laboratory section (AET106L).
Course Offered: Fall, Summer
Credits: Credits:3 (2,3)

AET 107 Manual Drivetrains and Driveaxles
This is a theory/laboratory course designed to provide a thorough understanding of the vehicle's drive train. Topics will include the design, construction, inspection techniques, and service and associated repair operations of the drivetrain and driveaxle components. The topics will include clutches, propeller shafts, universal joints, CV joints, manual transmissions, differentials and other components used in both front and rear wheel drive systems. Related laboratory activities and demonstrations are included in the required laboratory section. Corequisite: AET 107L
Course Offered: Fall, Summer
Credits: Credits:3 (2,3)

AET 109 Automotive Electrical Principles
This is an automotive theory course designed to introduce students to basic automotive-oriented electrical principles as they relate to both A.C. and D.C. circuits utilized in contemporary automotive electrical systems.
Course Offered: Fall, Summer
Credits: Credits:1 (1,0)

AET 150 Automotive Computer Applications
This is a theory/laboratory course designed to introduce the student to basic computer utilization and programming. Topics include a thorough introduction to personal computers, instruction in and development of basic programming. Students will be required to develop basic programs for technical automotive problem solving and practical automotive applications. Extensive use of the computer laboratory will be provided in the required laboratory section (AET150L).
Course Offered: Fall, Summer
Credits: Credits:2 (1,2)

AET 208 Automotive Electrical Applications
This is a theory/laboratory course designed to introduce the student to basic automotive-oriented electrical principles as they relate to both A.C. and D.C. circuits utilized in contemporary automotive electrical systems. The course also covers automotive electrical and electronic systems and their application. The student is required to utilize and understand the operation of various types of electronic equipment, including both computerized engine and emissions analyzers. Related laboratory activities and demonstrations are included in the required laboratory section (AET 208L). Prerequisite(s): AET 150 or MET 109
Course Offered: Fall
Credits: Credits:3 (2,3)

AET 215 Diesel Engines
This is a theory/laboratory course emphasizing in the diesel engine operations and servicing. Topics will include the study of current high-pressure diesel fuel-injection systems and the diesel engine combustion process with respect to fuel injection and combustion changer design. Specific examination of design and performance characteristics of diesel engine air induction, scavenging, supercharging and turbo-charging systems will be covered. Students will also analyze engine governing methods and devices necessary for control, as well as current methods and devices utilized in solving common diesel engine starting problems. Relevant laboratory activities and demonstrations are provided to support the trainings provided during the lecture hours. Prerequisite(s): AET 101 or AET 104 Corequisite: AET 215L
Course Offered: Summer
Credits: Credits:3 (2,3)

AET 216 Engineering Measurements
This is a theory/laboratory course designed to provide an understanding of engineering measurements theory, methods and devices utilized in today's technology. Topics will include examination of industrial methods of testing, analysis and reporting in the areas of pressure, temperature, speed (time and velocity), fluid flow and exhaust emissions and the testing of common fuels and lubricants. Also included is the evaluation of a series of gasoline engine performance tests and their resulting data, including computer programmed computation and graphical analysis of the completed testing, as presented in a student developed technical paper. Typical engineering measurement instruments and devices will be encountered and utilized in laboratory support of the course (AET216L). Prerequisite(s): AET 150
Course Offered: Fall
Credits: Credits:3 (2,2)

AET 217 Applied Mechanics and Engineering Materials
This course is designed to introduce the fundamental principles of applied engineering mechanics and materials. Topics include forces, couples, equilibrium, friction, kinematics of rectilinear and rotational motion, work, energy and power. Principles and applications of hydraulics are also discussed. Engineering materials topics include classifications, structure, properties, phase transformation and heat treatment of metals, inspection and testing techniques of automotive engineering materials. Related problem-solving activities are included. Prerequisite(s): PHY 135 and MTH 130
Course Offered: Summer
Credits: Credits:3 (3,0)

AET 218 Applied Manufacturing Processes
This is a theory/laboratory course designed to introduce the student to basic manufacturing processes and machine tool operations. Topics covered are casting, cold and hot metal forming, machining and joining processes. Related laboratory activities include projects and experiments with technical reports. Individual laboratory projects will be assigned to each student to reinforce the topics covered in the theory. NOTE: Students

completing this course may not receive credit for MET 117. Prerequisite(s): AET 101 and AET 107
Course Offered: Fall
Credits: Credits:2 (1,3)

AET 255 Computerized Engine Controls
This is a theory/laboratory course developed to provide the student with a working understanding of automotive electronics and computerized engine control systems. The course includes computerized fuel and emission control systems, with emphasis on the diagnosis of basic engine malfunctions. The student will also analyze the principles and operation of feedback type systems. Electronic diagnostic equipment is used to identify system malfunctions in order to indicate necessary corrective actions. Laboratory activities provide an opportunity for a practical application of diagnostic procedures on current vehicles which is covered in the laboratory section (AET255L). Prerequisite(s): AET 208
Course Offered: Summer
Credits: Credits:3 (2,2)

AET 257 Automatic Transmissions
This is a theory/laboratory course dealing with the transmission of power in automobiles, emphasizing contemporary automatic transmissions. Topics covered include applications of the principles of the planetary gear systems, fluids, seals, hydrodynamic drives, hydraulic controls and application devices. The power flow within selected automatic transmissions is discussed and is supported with related activities in the required laboratory section (AET257L). Prerequisite(s): AET 107
Course Offered: Summer
Credits: Credits:3 (2,2)

AET 290 Project Seminar
This course is designed to provide the student with the challenge of an independent project. Requirements will include the completion of an extensive faculty approved research/construction project. This project must be related to the automotive field. The student is responsible for the original project concept, which must be supported by preliminary, progress and final technical reports. A video-taped oral presentation is also required. Note: Students cannot get credit for AET 290 and 290W; AET 290W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Automotive Department.
Course Offered: Fall, Summer
Credits: Credits:1 (0,2)

AET 410 Senior Project
An independent investigation of a technical or managerial problem of interest to both the student and a faculty member who shall act as Project Advisor. The project selected will utilize skills and knowledge acquired in earlier AET studies. Prerequisite(s): Senior status and permission of the Department Chair Note: Students cannot get credit for AET410 and 410W; AET 410W can be used to fulfill the writing intensive requirement
Credits: Credits:3 (2,2)

AET 490 Selected Topics in Automotive Management Technology
Courses that range from 490-499 are selected topics of current interest in Automotive Engineering Technology. Prerequisite: Senior status and/or permission of the Chair/Faculty.
Course Offered: Fall, Spring, Summer
Credits: Credits:1 to 1 (1,0 to 0)

AET 491 Special Topics: Internship
Selected topics of current interest in Automotive Engineering Technology. Prerequisite: Senior status and/or permission of the Chair/ Faculty.
Course Offered: Fall, Spring, Summer
Credits: Credits:1 to 1 (1,3 to 3)

AET 492 Special Topics: Electric Vehicle
Selected topics of current interest in Automotive Engineering Technology. Prerequisite: Senior status and/or permission of the Chair/Faculty.
Course Offered: Fall, Summer
Credits: Credits:1 to 1 (1,3 to 3)

AET 493 Special Topics: Hybrid Electrical Vehicle
Selected topics of current interest in Automotive Engineering Technology. Prerequisite: Senior Status and/or permission of the Chair/Faculty.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 to 1 (1,3 to 3)

AET 494 Special Topics in Auto Management Technology
Selected topics of current interest in Automotive Engineering Technology. Prerequisite: Senior Status and/or permission of the Chair/Faculty.
Course Offered: Fall, Summer
Credits: Credits:1 to 1 (1,3 to 3)

AET 495 Special Topics in Auto Management Technology
Selected topics of current interest in Automotive Engineering Technology. Prerequisite: Senior Status and/or permission of the Chair/Faculty.
Course Offered: Summer
Credits: Credits:1 to 1 (1,3 to 3)

AET 496 Special Topics in Auto Management Technology
Selected topics of current interest in Automotive Engineering Technology. Prerequisite: Senior Status and/or permission of the Chair/Faculty.
Course Offered: Summer
Credits: Credits:1 to 1 (1,3 to 3)

AIR FORCE ROTC (AFR)

AFR 101 The Foundations of the U.S. Air Force I
This is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. The course covers the history and structure of the US Air Force, the Air Force's capabilities, career opportunities, benefits, and Air Force installations.
Credits: Credits:1 (1,0)

AFR 102 The Foundations of the U.S. Air Force II
This course is a continuation of study associated with AFR 102.
Credits: Credits:1 (1,0)

AFR 201 The Evolution of U.S. Air and Space Power I
This course features topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power.
Credits: Credits:1 (1,0)

AFR 202 The Evolution of U.S. Air and Space Power II
This course is a continuation of study associated with AFR 201.
Credits: Credits:1 (1,0)

AFR 301 Air Force Leadership and Management I
This course is a study of leadership, management, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, evaluation systems, and the communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical applications of the concepts being studied. Prerequisite(s): AFR 101, AFR 102, AFR 201, AFR 202
Credits: Credits:3 (3,0)

AFR 302 Air Force Leadership and Management II
This course is a continuation of study associated with AFR 301.
Prerequisite(s): AFR 101, AFR 102, AFR 201, AFR 202
Credits: Credits:3 (3,0)

AFR 401 National Security Affairs/Prep for Active Duty I
This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officer ship, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. Prerequisite(s): AFR 101, AFR 102, AFR 201, AFR 202
Credits: Credits:3 (3,0)

AFR 402 National Security Affairs/Prep for Active Duty II
This course is a continuation of study associated with AFR 401.
Prerequisite(s): AFR 101, AFR 102, AFR 201, AFR 202
Credits: Credits:3 (3,0)

ARTIFICIAL INTELLIGENCE MGMT (AIM)

AIM 101 Principles of Management
This introductory management course covers principles pertaining to human resources as welt as organizational and technological issues. Topics include managing and the manager's job; ethical and social issues; the global environment; planning and decision making; organization change and innovation; strategic importance and legal environment of human resources management; employee performance appraisal and feedback; organizational behavior and development; leadership and influence processes; work groups and teams; total quality in organizations; and managing information and information technology. Prerequisite(s): Department approval
Credits: Credits:1 (1,0)

AIM 102 Foundations of Business
This course introduces the student to the fundamentals of American Business and its contemporary environment. It provides an overview of organizational, national, and international trends and their impact on enterprises, both large and small. The course develops an understanding of important business concepts, principles, and practices that explain how businesses are formed, how they operate to accomplish their goals, and why/how their success depends on effective management, production, marketing and finance/accounting. Prerequisite(s): Department approval
Credits: Credits:1 (1,0)

AIM 103 Artificial Intelligence Programming
This course provides an introduction to programming topics in Python including Artificial Neural Network, natural Language Processing, Machine Learning, Deep Learning, Genetic algorithms, and their implementation. This course will introduce core machine learning techniques for classification, regression and clustering. On the theory side, the course will focus on understanding models and the relationships between them. On the practical side, the course will focus on using machine learning methods to solve real-life problems. The course will include programming assignments in Python. Prerequisite(s): Department approval
Credits: Credits:1 (1,0)

AIM 104 Introduction to Machine Learning
Artificial Intelligence (Al) is driving the development of machines capable of simulating cognitive than computer science and data science, Al still contains numerous subfields that are active areas of research and application. These subfields include search and planning, reasoning and knowledge representation, perception, natural language processing (NLP), and of course, machine learning. This course is designed to prepare students to study Machine Learning and Al by surveying current techniques and working with the associated tools. Prerequisite(s): Department approval
Credits: Credits:1 (1,0)

AIM 301 Artificial Intelligence in Marketing
This course introduces Marketing analytics, communication, and artificial intelligence (Al) as a support and communication portfolio for Marketing decision making. It concentrates on the theoretical and conceptual foundations of Marketing decision support and communication as well as on the commercial tools and techniques that are available. The course will deliver motivations, concepts, and methods of different types of Marketing analytics and Marketing communication and cover new technology trends as enablers of novel Marketing communication forms and analytics such as Al, machine learning, deep learning, robotics, IOT, and smart assisting systems. Prerequisite(s): AIM 101 and AIM 102, or department approval and junior level standing
Credits: Credits:3 (3,0)

AIM 310 AI in Finance
This course will provide fundamental background and skills necessary to apply Artificial Intelligence to the finance industry. Students are expected to develop a broad understanding of recent FinTech developments and its impact in the financial industries. Topics may include but are not limited to: blockchain and cryptocurrencies, Bitcoin, Ethereum, Altcoins, applications of blockchain technologies in various finance areas, alternative and P2P lending and crowdfunding. Prerequisite(s): AIM 101 and AIM 102, or department approval and junior level standing
Credits: Credits:3 (3,0)

AIM 350 Programming for AI
This course provides an introduction to programming for Artificial Intelligence, with an emphasis on Artificial Neural Networks, Natural Language Processing, Machine Learning, Deep Learning, Genetic algorithms, and their implementation in Python. This course will introduce core machine learning techniques for classification, regression and clustering. On the theory side, the course will focus on understanding models and the relationships between them. On the practical side, the course will focus on using machine learning methods to solve real-life problems. The course will include programming assignments in Python. Prerequisite(s): AIM 103 or department approval
Credits: Credits:3 (3,0)

AIM 360 Algorithms for AI
This course introduces students to methods of formal reasoning about the complexity and correctness of algorithms, which provide instructions to computers for completing a task. The student will be introduced to the standard nomenclature, and a variety of approaches to problem solving. These analytical approaches will then be applied to some standard Al algorithms. Prerequisite(s): AIM 103 or department approval
Credits: Credits:3 (3,0)

AIM 370 AI and Machine Learning I
This course is the first part of the Al and Machine Learning sequence. In this course students will learn core techniques and applications of artificial intelligence to better understand Al technology. Topics covered include the representation, retrieving, and application of knowledge for problem solving, as well as planning and probabilistic inference. At the completion of this course, students will be able to solve real-world problems using the techniques covered. Prerequisite(s): AIM 350
Credits: Credits:3 (3,0)

AIM 410 Analytical Techniques for Decision Making in AI
The course provides students with an overview of artificial intelligence (Al) and its role within decision making. This course will help students in understanding the strengths and weaknesses of human decision making and learning, specifically in combination with Al systems. It undertakes an examination of the various analytical techniques for decision making using Al and investigates the current limitations of Al. Some of the important topics in this course include but are not limited to: introduction to decision making, search and planning, knowledge representation and reasoning, cognitive collaboration, decision intelligence, automated decision-making, forecasting as decision making tools, the ethics of using Al in decision-making, and the future of Al. Prerequisite(s): AIM 350 and AIM 360 and AIM 370
Credits: Credits:3 (3,0)

AIM 420 Supply Chain, Operations, and AI
This course provides an overview of artificial intelligence (Al) and its role in business transformation, especially within supply chain and operations management. It teaches the concept of Al, which refers to the development of computer systems that can perform tasks usually requiring human intelligence, such as visual perception, speech recognition, and decision making. The purpose of this course is to improve understanding of Al, discuss the many ways in which Al is being used in the industry, and provide strategic framework for how to bring Al to the center of digital transformation efforts. Some of the important topics to be covered include but are not limited to: automation and robotics in transportation, warehouse, distribution and logistics, demand forecasting, and the future-of Al in business applications. Prerequisite(s): AIM 350 and AIM 360 and AIM 370
Credits: Credits:3 (3,0)

AIM 460 AI and Machine Learning II
This course is the second course in the Al and Machine learning sequence of the program. In this course, students will further apply the technologies and core techniques covered in Al and Machine learning I. This course will cover both supervised and unsupervised learning, as well as the application of Machine learning and Neural Networks to real problems and the use of the cloud ML services. Prerequisite(s): AIM 370
Credits: Credits:3 (3,0)

AIM 490W Capstone Project
This course gives Artificial Intelligence Management students an opportunity to put into practice techniques and concepts acquired in their coursework to the solution of a real-world problem. Elements will be drawn primarily from previous coursework, however all students, functioning as part of a team, are required to further research the latest in the field and go beyond what they've learned in coursework in order to develop a working Artificial Intelligence system. The course is experiential in nature i.e. the

student will be required to produce solutions that can be applied and will be evaluated both on process and end-product. Prerequisite(s): AIM 301, AIM 370, AIM 410, AIM 460, Senior Level Standing and EGL 101 with a grade of C or higher.
Credits: Credits:3 (3,0)

ANTHROPOLOGY (ANT)

ANT 100 Introduction to Anthropology
Anthropology is the scientific study of human-kind. This course offers an introduction to its four major sub-fields, namely; Physical or Biological anthropology (human evolution, the fossil record, ethology); Archaeology (extinct cultures, classical civilizations, pre-history); Linguistics (language origins, development, diffusion, structure, and change); Sociocultural Anthropology (pioneers in the field, cross-cultural research, case studies, and the future). By focusing on the broad cultural implications and complexities of social communication and interaction, anthropology seeks to understand the whole human experience.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ANT 110 Sociocultural Anthropology
Sociocultural Anthropology is concerned with examination of the social and cultural similarities and differences in the world's human populations. Subsistence patterns, social organization, economic structures, political systems, religion and creative behavior are the major areas we cover. By examining examples ranging from small gathering and hunting groups to large modern day communities, this course provides a broad perspective of the sociocultural realities of our world. NOTE: Students cannot earn credit for ANT 110 and ANT 110*D ANT 110*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ANT 120 Archaeology
Archaeology is the study of the cultural evolution of humankind using the material remains of past human behavior. This course introduces the methods, logic and history of archaeology through an examination of several ancient civilizations as understood through their architecture and artifacts. Topics include theoretical issues, fieldwork, and interpretation of artifacts and reconstruction of past cultural patterns. Examples will be drawn from such cities and civilizations as Mesopotamia, Crete, Troy, Ancient Egypt, Pompeii, and North and South America. Students will visit at least one relevant site, exhibit or museum as a course requirement.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ANT 130 Indigenous Peoples of North America
This course provides a comprehensive history of the human groups who populated North America before, during and after settler-colonialists brought the culture, politics and economics of Europe to North America. Students will be introduced to the anthropological literature concerned with the study and understanding of Indigenous cultures and societies. Students will learn about the dynamic Indigenous heritages, languages, knowledge, technology, arts, and values that have been passed on through the generations. NOTE: Students cannot earn credit for ANT 130 and ANT 130*D ANT 130*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ANT 210 Modern Anthropology and Globalization
Cultural change and the social processes involved are major areas of cultural anthropological research. By introducing students to the application of anthropological methodologies such as field work and cross-cultural comparison, the course examines some of the major issues which confront human beings in a complex rapidly growing and changing world including: globalization, migration and immigration, population changes, social conflict, agricultural/technological development, nutrition, commodity/cultural exchange, and the future of small scale homogeneous societies. Prerequisite(s): Any 100 level social science or business course.
Credits: Credits:3 (3,0)

ANT 211 Caribbean Cultures
This course covers: pre-European cultures in the Caribbean, the post-Columbus plantation system, contemporary economics and politics, community structure, religion, marriage and family, ethnic diversity, immigration and the arts. An in-depth study of these topics will provide knowledge, understanding and appreciation of this region while offering insights into the development of communities in the U.S. with Caribbean heritage. NOTE: Students cannot earn credit for ANT 211 and ANT 211*D ANT 211*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ANT 212 Introduction to Medical Anthropology
Medical Anthropology is a subfield of Anthropology that draws upon social, cultural, biological, and linguistic anthropology to better understand those factors which influence health and well being (broadly defined), the experience and distribution of illness, the prevention and treatment of sickness, healing processes, the social relations of therapy management, and the cultural importance and utilization of pluralistic medical systems. (SMA) This course introduces students to the subject and basic methods used in cross-cultural comparisons and research, as well as providing a better understanding of Western and non-Western perceptions and treatments of the body and health issues. Prerequisite(s): EGL 101, ANT 100 or SOC 122 or SOC 228 or BIO with lab
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ANT 220 Special Topics in Anthropology
Courses that range from 220-229 are special topics courses. This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 221 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 222 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 223 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 224 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 225 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 226 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 227 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on

knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 228 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 229 Special Topics in Anthropology
This course provides the opportunity to study, explore, examine and analyze areas of special, short-term interest in anthropology. Each topic builds on knowledge learned in the 100 level courses. Prerequisite(s): ANT 100 or ANT 110 or SOC 122
Credits: Credits:3 (3,0)

ANT 240 Gender and Social Change
This course studies changing gender norms and relationships. It will explore the social and historical construction of gender over time and across space, as well as examine how other systems of inequality like race and class shape gender relations. Topics include: changing legal statutes around gender, transformations in the gendered division of labor within the family, and gender in the workplace. Students will examine why these changes have occurred and what they mean for gender politics in our society. NOTE: Students completing this course may not receive credit for SOC 240. Students cannot earn credit for ANT 240 and ANT 240*D (which can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement).
Credits: Credits:3 (3,0)

ANT 250 Forensic Anthropology
This course provides a broad overview of Forensic Anthropology- an applied field within Anthropology- dealing with the osteological (skeletal anatomy and biology) analysis of human remains. We will employ and discuss scientific methods used to explore and a broad range of problems associated with identification and trauma analysis using data gathering methods such as: characteristics of the human skeleton; identification of ancestry, age, sex; recovery methods; use of appropriate technologies for analysis, including DNA. Prerequisite(s):Any BIO with lab and ANT 100 or ANT 110 or SOC 122
Course Offered: Fall
Credits: Credits:3 (3,0)

ANT 300 Africanisms in the Americas
In providing the largest body of slave labor in known history, Africans changed the cultures of all inhabitants of the Americas and were themselves changed in the process. From cuisine to crafts, technologies to the arts, pan-Africans have influenced our language, music, philosophies, and social policies in ways both direct and subtle. Utilizing a four-field approach, this course will look at the migrations from Africa to the rest of the world through DNA markers, material and social culture; explore the changing meanings and presentations of pan-Africans in literature, religion, art, and film; discover some of the ways in which scientists and social scientists trace physical and cultural artifacts, and note some of the controversies and contexts for cultural claims. Prerequisites: ANT 100; or ANT 110; or ANT 120; or SOC 122; or SOC 150, and EGL 102 all with a grade of C+ or higher Recommended: ANT 210, Modern Anthropology and Globalization; ANT 211 Caribbean Cultures; ANT 260 Anthropological Theory; ANT 266 Anthropological Research
Credits: Credits:3 (3,0)

ANT 312 Advanced Medical Anthropology
Medical Anthropology is a subfield of anthropology utilizing various methods to understand factors that influence health, disease and its experience, as well as medical systems. Advanced Medical Anthropology builds on material covered in Medical Anthropology, moving from a general overview and introduction, to the concentration on a specific culture, its concepts of wellness and disease, the methods and practices used for diagnosis and treatment, and ethics and health disparities. Students will compare and contrast American methods and systems with another society to gain a better appreciation for the complexities and diversity of the human experience of health and disease, interpretations of the body and healing, the construction and distribution of knowledge, norms, and systems of medical care. The growing interest in global health and our own diversity makes this a course particularly interesting to those preparing for careers in health, international development, and health advocacy. Prerequisites: EGL 102; BIO 120 or 123 or 166 or 170 and ANT 212 or ANT 250 with a grade of C+ or higher
Credits: Credits:3 (3,0)

ANT 320 Advanced Topics in Anthropology
Courses that range from 320-329 are special topics courses. This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Course Offered: Spring
Credits: Credits:3 (3,0)

ANT 321 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 322 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 323 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 324 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 325 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 326 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 327 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 328 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 329 Advanced Topics in Anthropology
This course offers students the chance to study short term topics of specialized, more advanced areas of anthropology. Each topic builds and expands on information learned in introductory courses. This course is particularly recommended to students in the Anthropology Minor program, but is open to other interested students who meet the prerequisites. Prerequisite(s): ANT 100 or ANT 110 or ANT 120 and one 200 level ANT course
Credits: Credits:3 (3,0)

ANT 330 Human Osteology
Human Osteology is designed to give students a detailed and intensive knowledge of human skeletal anatomy using an anthropological approach. This course will cover skeletal growth and development, variation, histology, and pathology, in addition to basic demographic analyses (age, sex, stature and ancestry). Through lectures and hand-on experience, using skeletal material from the collections housed in the Sociology and Anthropology department, students will learn to identify all skeletal elements, to understand and appreciate the variation observed within and between populations and to appreciate the influence culture has on the human skeletal system. Course lectures will be enhanced using case studies from archaeology and forensic anthropology. Prerequisite(s): ANT 120 or ANT 250 or BIO 166 or BIO 170
Credits: Credits:3 (3,0)

ANT 350 Environmental Anthropology
Examines human-environment interactions across time using anthropological perspectives and digital technologies. Analyzes how past societies adapted to environmental changes through case studies of ancient agricultural systems, climate resilience strategies, and urban development. Applies mapping, 3D modeling, remote sensing, and AR/VR technologies to investigate historical ecological knowledge and its relevance to contemporary sustainability challenges. Prerequisite(s): ANT 100 or ANT 120 or SOC 122
Credits: Credits:3 (3,0)

ANT 360 Anthropological Theory
This course explores the broad historical outline of major theoretical approaches in the field of Anthropology, from the late 19th century to the present. Debates within the discipline and the larger historical, cultural and intellectual contexts in which they were produced, will be examined, as will the enduring relevance of these theories. The course includes reading and critical analysis of texts, as well as class discussions. Prerequisite(s): (ANT 100 or ANT 110), EGL 102, any 200 level ANT course. All with a grade of C or higher.
Credits: Credits:3 (3,0)

ANT 366 Anthropological Research Methods
This course focuses on research methods in anthropology as the means for learning ethnographic research methods and how to talk and write about culture, as a basis of anthropological research. The purpose of the course is to gain experience in ethnographic practices, including interviewing, fieldwork research, qualitative analysis, and writing critically informed accounts. Prerequisite(s): (ANT 100 or ANT 110), EGL 102 and any 200 level ANT course. All with a grade of C or higher.
Credits: Credits:3 (3,0)

ANT 370 Forensic Anthropology
This course provides a broad overview of Forensic Anthropology- an applied field within Anthropology- dealing with the osteological (skeletal anatomy and biology) analysis of human remains. We will employ and discuss scientific methods used to explore a broad range of problems associated with identification and trauma analysis using data gathering methods such as: characteristics of the human skeleton; identification of ancestry, age, sex; recovery methods; use of appropriate technologies for analysis, including DNA. This course will incorporate a hands-on approach to Forensic Anthropology where students examine the human skeletal remains collection housed in the Sociology and Anthropology Department as a primary resource. Students will use this collection to test current theory, methods and practice within Forensic Anthropology through mock-cases. Prerequisite(s): Any Biology course with lab and (ANT 100 or ANT 110 or SOC 122), all with a grade of C or higher Credit(s): 3
Credits: Credits:3 (3,0)

ANT 480 Research Internship I
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): ANT 366 with a grade of C or higher
Credits: Credits:1 (0,0,3)

ANT 481 Research Internship I
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): ANT 366 with a grade of C or higher
Credits: Credits:2 (0,0,6)

ANT 482 Research Internship I
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): ANT 366 with a grade of C or higher
Credits: Credits:3 (0,0,9)

ANT 485 Research Internship II
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): ANT 366 with a grade of C or higher
Credits: Credits:1 (1,0)

ANT 486 Research Internship II
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills,

through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): ANT 366 with a grade of C or higher
Credits: Credits:2 (2,0)

ANT 487 Research Internship II
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): ANT 366 with a grade of C or higher
Credits: Credits:3 (3,0)

ARABIC (ARA)

ARA 131 Arabic I (Elementary)
A beginning course in Arabic emphasizing the gradual development of the four language skills: listening, speaking reading and writing with stress on communicative competence and cultural awareness.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ARA 132 Arabic II (Elementary)
A continuation of ARA 131 or for students who have had 2 to 3 years of high school Arabic. This course emphasizes the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. Prerequisite(s): ARA 131
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ARA 233 Arabic III (Intermediate)
For those students who have taken ARA 132 or four or more years of high school Arabic. This intermediate course further emphasizes the development of the four language skills: listening, speaking, reading, and writing with stress on communicative competence and cultural awareness. A literary and cultural reading will be introduced. Prerequisite(s): ARA 132
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ARA 234 Arabic IV (Intermediate)
For those student who had taken ARA 233 or four or more years of high school Arabic. This course emphasizes structural review, intensified practice in oral expression with increased emphasis on reading and writing skills. Continued attention will be given to contemporary Arabic culture. Selections from Arabic authors will be read. Prerequisite(s): ARA 233
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ARCHITECTURAL TECHNOLOGY (ARC)

ARC 100 Introduction to Architecture and Culture
This course provides a foundational study of the art and history of western architecture and the context in which it is built. The course will focus on 20thcentury to newly built western architectural and urban developments. Course topics include how architecture of today has been influenced by its location, historically significant buildings, art, culture, landscapes, and urbanism. Designed to familiarize students with the architectural thinking of the built environment that surrounds them locally and during an in person or virtual study abroad/away experience to a western city, this course will give students an opportunity to develop an understanding and appreciation of the architecture discipline and its design objectives. Course content is drawn from numerous fields including architectural history and theory, design studies, philosophy, and urban studies.
Course Offered: Spring
Credits: Credits:3 (3,0)

ARC 101 Introduction to Architecture & Construction
This is an introduction to elementary concepts, literacy and graphics in the architectural and construction field. This elective course is for students who have never taken any hand drawing/drafting and Computer Aided Drafting (CAD). The course will provide a hands on experience in architectural and construction drawing/drafting, sketching, model building, orthographic projection. The use of reading scales, lengths, areas and volumes in drawings is developed to help students visualize and understand building elements and plans. The course will include basic CAD fundamentals, site visits and future employment requirements and opportunities for those interested in the major.
Course Offered: Spring
Credits: Credits:3 (2,2)

ARC 111 Graphics I
This manual drafting studio class develops student's abilities in lettering, technical sketching, drafting and the use of drafting instruments. The fundamentals of orthographic projection and pictorial drawings develop the student's abilities to visualize and describe objects and structures graphically. Students who take ARC 131 will not get credit for ARC 111. Taking ARC 111 and 121 is equivalent to taking ARC 131 for degree purposes.
Course Offered: Fall, Spring
Credits: Credits:2 (1,2)

ARC 121 Graphics II
This course will introduce and develop computer-aided drawing skills used in the architectural, construction, and civil engineering fields. Students will prepare drawings for a small residential building using a computer drafting program such as AutoCAD Architecture. Students who take ARC 131 will not get credit for ARC 121/CON 121. Taking ARC 111/CON 111 and ARC 121/CON 121 is equivalent to taking ARC 131 for degree purposes.
Course Offered: Fall, Spring
Credits: Credits:2 (1,2)

ARC 123 Graphics III
This course furthers the development of computer drafting skills to prepare digital models and renderings for architectural project presentations. Specialized software such as Revit, a Building Information Modeling (BIM) software, will be utilized. Prerequisite(s): ARC 131 or ARC 111/CON 111 and ARC 121/CON 121
Course Offered: Spring
Credits: Credits:1 (0,3)

ARC 131 Introduction to Graphics
Introduction to architectural and construction graphics using hand drawing/drafting and Computer Aided Drafting (CAD). Hand drawing/drafting topics include: lettering, technical sketching, use of drafting instruments, the fundamentals of orthographic projection, plan, section, elevation development and pictorial drawings to develop the student's abilities to visualize and describe objects graphically. CAD topics include software commands and drawing strategies for 2-D and 3-D CAD work, plans, sections, elevations, and details, information management, assembly of drawings and scales. Note: This course includes a required laboratory designed to provide extra time for the studio experience.
Credits: Credits:4 (3,0,2)

ARC 255 Architectural Design I
Studies the principles of form, space and order that underlie architectural design. Concepts include: mass void modeling, volume and space construction, enclosing planes, circulation, organization, hierarchy, and structure. The diagram and sketch model are introduced as methods of understanding design. Concepts are explored in both three dimensional and graphic form. Note: This course includes a required laboratory designed to provide extra time for the studio experience. Prerequisite(s): ARC 111 and ARC 121
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,2)

ARC 257 Architectural Design II
Continuation of Architectural Design I. Emphasis is placed on the process by which design decisions are made and the methods of analysis in context to the existing environment. Topics include: structure, form and function, building in context, light and construction. Note: This course includes a required laboratory designed to provide extra time for the studio experience. Prerequisite(s): ARC 255
Course Offered: Fall, Spring

Credits: Credits:4 (3,0,2)

ARC 263 Mechanical, Electrical, Plumbing and Energy Systems
An overview of mechanical, electrical and plumbing (MEP) aspects of buildings. Intended to develop students' ability to analyze energy requirements of buildings and various methods of energy conservation and thermal efficiency. Topics covered include heat flow, system and equipment for heating and cooling. Also included are water supply and wastewater treatments for buildings. Prerequisite(s): CON 162
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ARC 303 Construction/Architecture Internship
A program of practical experience and independent study to supplement and enrich classroom learning. It is a fully faculty supervised structured industrial experience. Periodical written reports and end of the assignment employer report required. Prerequisite(s): ARC 131 or (ARC 111 and ARC 121), CON 162 and CON 207, Junior-level status, and Department Chair approval
Course Offered: Summer
Credits: Credits:3 (1,0,6)

ARC 310 Construction Design
Construction Design is a technology-based design studio emphasizing a methodological approach to the assembly of the building's envelope, materials and systems. The integration of building code requirements, life safety, sustainability, accessibility, building energy systems, structure, construction and materials are central to effectively achieving design intent. Knowledge from Materials and Method of Construction I and II, Energy in Buildings and Graphics are applied to specific drawing assignments. A residential Type V construction, and a commercial Type II or Type III construction, building project will be advanced resulting in a set of construction documents. Note: This course includes a required laboratory designed to provide extra time for the studio experience. Prerequisite(s): ARC 111, ARC 121, CON 106, and ARC 263
Course Offered: Fall, Spring
Credits: Credits:4 (3,2)

ARC 350W Architectural Theory and Design Factors (Writing Intensive)
This course will examine a series of architectural theories and design factors that attempts to explain, predict or influence design decisions that result in the built environment. Topics include: historical theory, form and aesthetics; architectural technology; the urban, natural and human environment; economic, zoning and code factors; the social and behavioral implications of architecture, the design process itself and the architectural profession. This is a writing-intensive course. Prerequisite(s): ARC 257 and ARC 362 and EGL 101 with a grade of C or higher. Note: Offered at the discretion of the Architectural/Construction Management Department.
Course Offered: Spring
Credits: Credits:3 (3,0)

ARC 362 History of Western Architecture
A study of the development of building design from the Ancient Egyptians and Greeks throughout the major historical periods to the present. Emphasis is on the evolution of the forms derived from indigenous technologies of periods surveyed.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ARC 364 Site Design and Construction
This is an advanced course in the utilization of engineering and architectural principles from concept through the construction techniques of traditional and sustainable site development. Site planning techniques, municipal land development requirements, zoning regulations, soil stabilization techniques, erosion control parameters, stormwater management practices, and site construction details are applied to a site design project. Computer-aided programs in site design and survey data management will be introduced. Prerequisite(s): ARC 310
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (2,2)

ARC 376 Architectural Design III
Continuation of Architectural Design II. Emphasis is placed on the context and constraints of urban and natural environment. The role of aesthetics, symbols, and historical elements in the making of places, spaces and communicating meaning are explored. Emphasis is placed on master planning and residential project(s) that integrate principles of architectural design/planning, and includes elements of building systems, structural and site design, zoning and building codes, etc. on an actual site in the area. Students will present their final project to invited architects at the end of the semester. Note: This course includes a required laboratory designed to provide extra time for the studio experiences. Prerequisite(s): ARC 257
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,2)

ARC 399 Applied Research Topics
A program of applied research and independent study on topics a faculty member is currently working on. this course is meant to enrich the learning experience by introducing the student to methods and analysis in applied research. this is a fully faculty directed and supervised structured research experience. Applied research work will be presented in an appropriate form. Prerequisite(s): Junior Level Status
Credits: Credits:3 (1,0,6)

ARC 476 Architectural Design IV
Continuation of Architectural Design III. The role of physical and regulatory constraints in the making of places and buildings are explored. Emphasis is placed on architectural programming and non-residential project(s) that integrate principles of architectural design/planning, and includes elements of building systems, structural and site design, zoning and building codes, etc. on an actual site in the area. Students will present their final project to invited architects at the end of the semester. Note: This course includes a required laboratory designed to provide extra time for the studio experiences. Prerequisite(s): ARC 376
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,2)

ARC 486 Architectural Design V
This architectural design course integrates several architectural and engineering design philosophies and methodologies into a comprehensive studio project. This course introduces very little new material; rather it is to synthesize knowledge learned in the following areas of design and analysis: architectural, structure, construction, site, energy (mechanical/electrical) and building systems and cost estimating. This multidisciplinary project uses a student design team approach. This course includes a required practicum designed to provide extra time for the studio experience. Prerequisite(s): Department Approval, Upper Division Status, recommended during the final semester, ARC 364, and ARC 476.
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,2)

ART HISTORY (ART)

ART 123 Art History
An analysis of the social, physical and psychological influences affecting the artist during various historical periods through the present. Emphasis is on the interrelationship between the changing purposes of art and variations in the meaning and form of artistic expression.
Credits: Credits:3 (3,0)

ART 200 History of Graphic Design
Graphic design has great power and has both reflected and influenced our society and culture throughout history. This course identifies the key movements within the history of graphic design from the Graphic Renaissance throughout today and highlights how these movements have mirrored and changed the course of our society and the field of graphic design. Lectures, images and texts will be used in of each of the following periods: Graphic Renaissance, the Industrial Revolution, Mid-Century Modernism, Late-Modernism Post-Modernism and the Digital Age. NOTE: Students cannot earn credit for ART 200, ART 200W or ART 200*D ART 200*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 101
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ART 201 Survey of Art History: Prehistoric Times through The Middle Ages
A survey of the history of the visual arts from their beginnings in prehistoric times to the end of the Middle Ages. Works of art are studied both as monuments of intrinsic aesthetic value and as expressions of the needs, ideals, and aspirations of the societies in which they were created. Note: Students cannot get credit for ART 201 and ART 201W; ART 201W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 101

Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ART 202 Survey of Art History: Early Renaissance to the Present
A survey of the history of the visual arts from the Early Renaissance to the Present. Works of art are studied both as monuments of intrinsic aesthetic value and as expressions of the needs, ideals, and aspirations of the societies in which they were created. Note: Students cannot get credit for ART 202 and ART 202W; ART 202W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 101
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ART 203 History of Interaction Design
The foundations of interaction design preceded the invention and use of the first computers and have evolved with the constant changes in technology. From punch cards to voice recognition, from the earliest computers to the mobile platforms of today, the need for a formal definition and definitive history of Interaction Design has increased as quickly as the technology has changed. This class will provide an over view of the history of the relationship between human beings and the tools and technology they use. The evolution of the computer and other digital devices will be explored with the emphasis on the events that lead to the formalization of Interaction Design into a vibrant and growing discipline. Prerequisite(s): EGL 101
Course Offered: Fall
Credits: Credits:3 (2,2)

ART 242 Italian Renaissance Art
This course is designed to introduce students to Ancient through Baroque art found in Italy. Students will be required to meet on campus prior to departing for Europe to study the great masterpieces of the Ancient, Medieval, Renaissance and Baroque periods of art found in their original contexts throughout Italy. Works of Painting, Sculpture, Architecture, Illuminated Manuscripts and other applied arts will be studied as they relate to the periods in which they were created. Prerequisite(s): EGL 101
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

ART 244 Visual Studies and Studio in Northern
This course is designed to introduce students to Medieval through 19th century European art found in the countries of France, Belgium and Holland. The class will meet four times on campus prior to departing for Europe to study the great masterpieces of the Gothic Medieval, Renaissance, Baroque, Rococo, Neo Classical, Romantic, Realistic and Impressionist and Post-Impressionist periods of art found in their original contexts throughout Europe. The Great institutions to be visited may include: the Louvre, the Rijks Museum and Hague to name a few. Prerequisite(s): EGL 101 and VIS 101 or VIS 110
Credits: Credits:3 (3,0)

ART 245 Visual Art Studies and Studio in Greece
This course will introduce the Ancient through Byzantine periods of art as they occurred in Greece. Students will study the art and the history surrounding the art's creation during three lectures on the campus of Farmingdale State. This will occur before departing to Europe to visit the country of Greece to study the original art first hand over the period of two weeks. In Europe, students will explore the Aegean, Classical, Hellenistic, Roman and Byzantine art styles by studying works of architecture, sculpture, painting, illuminated manuscripts, archaeological and other applied arts in the context of churches, archaeological sites and art museums. Mythology and Homeric literature will be introduced in order to gain an insight into the cultural foundations of Western Art and Civilization. Students will be assigned a term paper based on specific works studied, and will also be expected to maintain a journal including notes, drawings and other entries related to their experience abroad. Prerequisite(s): EGL 101
Credits: Credits:3 (3,0)

ART 301 Arts in the Twentieth Century
An analysis of the development of music, art, film, theater, dance, architecture, and design through the nine decades of the twentieth century. Field trips to various cultural events and extensive use of audio-visual materials are included. Prerequisite(s): EGL 102 with a grade of C or higher.
Credits: Credits:3 (3,0)

ART 302 Art History: Survey of American Art
A survey of the development of painting, sculpture, and architecture in the United States from the early colonial period to the present. Lectures, supplemented by slides and textbook illustrations, will provide the basis for an analysis of the "schools" styles, and influences that determined and are affecting the direction of American Art. Note: Students cannot get credit for ART 302 and ART 302W; ART 302W can be used to fulfill the writing intensive requirement.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ART 303 MesoAmerican Art History
This course is designed to expose students to the art, culture and history of Mexico and Central America from the first peoples of the Americas to the Spanish Conquest, Colonial Period, Revolution, Modern and contemporary eras. The class will introduce the student to visual works of art including sculpture, painting, architecture and other applied arts. The course begins with prehistoric art of the Clovis peoples of the American Southwest and concludes with the contemporary era. The class covers Clovis, Olmec, Maya, Zapotec, Mixtec, Aztec, Mexican and Guatemalan art and touches on significant imported Spanish influences. The history, mythologies, politics, religions, and philosophical thought of the periods are introduced in order to provide a context for the visual art.
Course Offered: Spring
Credits: Credits:3 (3,0)

ART 304 Global Art History
This course is an introduction to the art practices in various cultures specifically "Non-Western" cultures which includes Asia, Africa, Mesoamerica, the Middle East as well as Native America and Oceania. In this course students will examine examples of painting, sculpture, architecture, calligraphy, printing, carving, weaving and other forms of art that have been created around the world from pre-history to contemporary times. The lectures, discussions, presentations and projects will help the students develop an understanding of the arts of various cultures in the past and the contemporary times in relationship to religious, social, economic, and political contexts. NOTE: Students cannot earn credit for ART 304 and ART 304*D ART 304*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 101
Credits: Credits:3 (3,0)

ART 305 Contemporary Art History
This Art History course looks at art and culture from the post WWII period to the present (1945-2022). Major movements such as Abstract Expressionism, Pop Art and Post Modernism; as well as intermediary movements, Graffiti Art, Neo Expressionism, Performance art, happenings, hard edge abstraction, etc. are covered. Artist's works and the era they were created in will form the basis for discussions. Prerequisite(s): EGL 101
Credits: Credits:3 (3,0)

AMERICAN SIGN LANGUAGE (ASL)

ASL 101 American Sign Language I (Elementary)
A beginning course in American Sign Language emphasizing the gradual development of nonverbal communication skills in the visual-gestural language of the deaf in the United States and Canada with stress on conversational competence and awareness of deaf cultures.
Credits: Credits:3 (3,0)

ASL 102 American Sign Language II (Elementary)
A continuation of American Sign Language I (Elementary) (ASL 101) emphasizing the gradual development of nonverbal communication skills in the visual-gestural language of the deaf in the United States and Canada with stress on conversational competence and awareness of deaf cultures. NOTE: Language courses must be taken in sequential and prerequisite order. Prerequisite(s): ASL 101 Credit(s): 3
Credits: Credits:3 (3,0)

AVIATION (AVN)

AVN 094 Flightline-Piper WarriorPA28
Plane scheduled block times for flying.
Credits: Credits:0 (0,0,7)

AVN 100 General Aeronautics
This course provides introductory orientation and practical information essential to the career progression of both pilots and aviation administrators. Topics include: attributes of an aviation professional; aircraft design, components, performance, operation, maintenance and safety with human factors emphasis.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 101 Aviation Industry: A History Perspective
This course is a basic survey of the aviation industry viewed from a historical perspective. Topics covered will range from the early days of aviation to the present. The course will also examine the chronology of aviation laws and regulations and how they have changed from aviation beginnings in the United States to present day. At the conclusion of this course, the student will have a comprehensive knowledge of the U.S. air transportation industry and will understand its significant social/economic impact upon the nation and the world.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 104 Private Pilot Ground
Private Pilot-Ground training will enable the student to meet the prerequisite(s) specified in 14 CFR Part 61.105 as well as 14 CFR Part 141 Appendix B, as appropriate. Selected subject areas will include airplane systems, aerodynamic principles, flight environment, communication and flight information, meteorology for pilots, FAA Regulations, National Airspace System, NTSB, AC's, interpretation of weather data, aircraft performance, radio and visual navigation, human factors, flight safety, and cross-country flight planning. Prerequisite(s): FAA Student Pilot Certificate
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

AVN 105 Private Pilot Flight To Solo
Private Pilot Flight to Solo will enable the student to meet some of the prerequisite(s) specified in 14 CFR Part 61.109 or 14 CFR Part 141 Appendix B, as appropriate. During this course, the student obtains the foundations for all future aviation training. The student becomes familiar with the training airplane and learns how the airplane controls are used to establish and maintain specific flight attitudes and ground tracks. At the conclusion of the course, the student demonstrates proficiency in basic flight maneuvers and the student pilot will have successfully completed no less than three (3) takeoffs and full stop landings in the traffic pattern as Pilot-in-Command. Students must have a FAA Student Pilot Certificate/FAA 3rd Class or higher Medical Certificate. Aero fees will be charged. Note: FAA minimum hours approved are 35 total hours for AVN 105 & 106. Prerequisite(s): FAA Student Pilot Certificate and AVN 104
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,4)

AVN 106 Private Pilot Flight To Certificate
Private Pilot Flight training will the enable student to meet the prerequisite(s) specified in 14 CFR Part 61.109 or 14 CFR Part 141 Appendix B, as appropriate. Private Pilot Flight to Certificate will enable the student to meet the requirements necessary to obtain a Private Pilot certificate. An enrolled student must demonstrate through oral examinations, practical tests, and appropriate records that the student meets the knowledge, skill and experience requirements necessary to obtain a Private Pilot certificate with an airplane single-engine land rating. Selected subject areas will include engine starting, normal and crosswind taxiing, radio communications, normal takeoffs, power on and power off stalls, maneuvering during slow flight, traffic patterns, go around from a rejected landing, crosswind and normal landings, cross country flying, radio navigation, cockpit management, low level wind shear precautions, airport and runway marking and lighting, constant airspeed climbs and descents, stall spin awareness, and steep turns. Students must have a FAA Student Pilot Certificate/FAA 3rd Class or higher Medical Certificate. A grade will be issued upon taking the FAA Private Pilot practical exam. Aero fees will be charged. Note: FAA minimum hours approved are 35 total hours for AVN 105 & 106. Prerequisite(s): AVN 104 and AVN 105 with a grade of C or higher; FAA Student Pilot Certificate
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,4)

AVN 112 Pilot Proficiency
Prior to commencing flight training at FSC, students with an FAA issued Private Pilot certificate will be evaluated to determine credit for AVN104, AVN105 and AVN106. The date of FAA issuance of the Private Pilot certificate must be at least 30 days prior to the start of the semester. A grade and/or transfer credit will be issued upon successful completion of the evaluation process. Course length is contingent upon the student's knowledge and skills. Aero Fees will be charged. Prerequisite(s): FAA issued Private Pilot certificate.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:2 (1,3)

AVN 128 Unmanned Aerial Systems
The course provides students with a thorough understanding of Unmanned Aerial Systems (UAS) history, applications, airframe types, sensors, payloads, and future developments. In-depth coverage of applicable FAA regulations and flight operations in the National Airspace will coincide with demonstrations of UAS usage. Prerequisite(s): None
Course Offered: Fall
Credits: Credits:3 (3,0)

AVN 201 Safety Ethics
This course emphasizes ethical decision making as it applies to Complex Systems, aviation and aerospace, nuclear power plant, civil and IT engineering and the medical field. These systems have an extremely narrow tolerance for error, often resulting in monumental impact on the public, the economy of the nation and human life. This course seeks to increase the awareness levels of ethical issue for industry professionals and to provide the necessary skills to effectively deal with such critical problem solving issues. Topics include complex systems ethical decision making, safety with human factors emphasis, applied ethics for members of complex systems, corporate culture and risk management theory, moral and values. NOTE: Students cannot get credit for AVN 201 and 201W; AVN 201W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 202 Aviation Meteorology
A basic course in Aviation Weather. Weather theory including differential heating, air mass development, wind frontal activity and systems, weather hazards, weather reporting and weather forecasting is covered. Charts which are studied include Surface Analysis and Weather Depiction Charts, Constant Pressure Charts, Composite Moisture Stability Charts. Prerequisite(s): AVN 104 or AVN 100 with a grade of C or higher by department's approval.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 208 Instrument Pilot Ground
Instrument Pilot Ground training will enable the student to meet the prerequisite(s) specified in 14 CFR Part 61.65(b), or 14 CFR Part 141 Appendix C, as appropriate. Selected subject areas will include Federal Aviation Regulations that apply to flight operations under IFR, appropriate information that applies to flight operations under IFR in the "Aeronautical Information Manual," Air Traffic Control system and procedures for instrument flight operations, IFR navigation and approaches by use of navigation systems, use of IFR enroute and instrument approach procedure charts, procurement and use of aviation weather reports and the elements of forecasting weather trends based on that information and personal observation of weather conditions, safe and efficient operation of aircraft under instrument flight rules and conditions, recognition of critical weather situations and wind shear avoidance, aeronautical decision making and judgment, and crew resource management, including crew communication and coordination. Prerequisite(s): AVN 104 and AVN 105 with a grade of C or higher FAA Private Pilot Knowledge Test (with a grade of 70 or better).
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

AVN 209 Instrument Pilot Flight
Instrument Pilot Flight training will enable the student to meet the prerequisite(s) specified in 14 CFR Part 61.65, or 14 CFR Part 141 Appendix C, as appropriate. Instrument Pilot Flight will enable the student to meet the requirements necessary to obtain an Instrument Rating. Selected subject areas will include airplane attitude control by reference to instruments, use of full and partial panel reference, accurate use of navigation systems by maintaining positional awareness, holding patterns, instrument approaches, and IFR cross country procedures. A grade will be issued upon taking the FAA Instrument Rating practical exam. Students must possess an FAA Private Pilot Certificate/FAA 3rd Class or higher Medical Certificate. Aero fees will be charged. Note: FAA minimum hours approved are 35 total

hours for AVN 209. Prerequisite(s): AVN 106 with a grade of C or higher Corequisite(s): AVN 208
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,4)

AVN 211 Commercial Pilot Ground
Commercial Pilot Ground Training will enable the student to meet the prerequisite(s) specified in 14 CFR Part 61.125(b), or 14 CFR Part 141 Appendix D, as appropriate. Selected subject areas will include: accident reporting requirements of the National Transportation Safety Board, basic aerodynamics and the principles of flight, meteorology to include recognition of critical weather situations, wind shear recognition and avoidance, and the use of aeronautical weather reports and forecasts, safe and efficient operation of aircraft weight and balance computations, use of performance charts, significance and effects of exceeding aircraft performance limitations, use of aeronautical charts and a magnetic compass for piloting and dead reckoning, use of air navigation facilities, aeronautical decision making and judgment, principles and functions of aircraft systems, maneuvers, procedures, and emergency operations appropriate to the aircraft, night high altitude operations, procedures for operating within the National Airspace System, and procedures for flight and ground training for lighter than air ratings. Prerequisite(s): AVN 106 and AVN 208 with a grade of C or higher; FAA Instrument Rating Knowledge Test (with a grade of 70 or better).
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

AVN 212 Commercial Pilot Flight
Commercial Pilot Flight training will enable the student to meet the prerequisite(s) specified in 14 CFR Part 61.129 or 14 CFR Part 141 Appendix D, as appropriate. Commercial Pilot Flight will enable the student to meet the requirements necessary to obtain a Commercial Pilot Certificate. Selected subject areas include accurate planning of VFR cross country flights, pilotage, dead reckoning, navigation systems, and commercial maneuvers as well as provide the skill necessary to safely fly a complex airplane. A grade will be issued upon taking the FAA Commercial Pilot practical exam. Students must possess a FAA 3rd Class or higher Medical Certificate. Aero Fees will be charged. Note: FAA minimum hours approved are 65 total hours for AVN 212. Prerequisite(s): AVN 209 with a grade of C or higher Corequisite(s): AVN 211
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,4)

AVN 230 Airline Management
This course will give the students an integrated study of airline operations and functions. Domestic and international regulation of air carries and the industry's changing structure due to alliances and globalization are addressed. Topics include the annual profit plan, uniform system of accounts and reports, demand analysis, scheduling, the theory of pricing, fleet planning, facilities planning, airline financing, airline economics, airline marketing and pricing, computer reservation and revenue management systems, fleet planning and scheduling, aircraft maintenance aircraft finance, labor relations, organizational structure, and strategic planning. Prerequisite(s): AVN 101 with a grade of C or higher.
Credits: Credits:3 (3,0)

AVN 270 Introduction to Airports Management
An introductory course, which provides foundational information and strategic concepts about the air transport/ airport system. Topics include: Overview of Air Transport/ Airport system, Department of Transportation/Federal Aviation Administration, Intro to Airports/ Management, Organizational Development, Management Roles and Theories, Motivational and Communications Principles/Processes. Prerequisite(s): AVN 101 with a grade of C or higher
Credits: Credits:3 (3,0)

AVN 271 Airport Capacity/Delay/Airspace Environment
This course covers the following topics: Airport Capacity and Delay, Technological and Weather Solutions, Air Traffic Control, U.S. Airspace, Air Navigation and Navigational Aids Runway Lighting Systems, FAA FAR Part 77, Environmental Regulations and Airport Noise, Land Use Compatibility. Prerequisite(s): AVN 101 with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

AVN 280 Introduction to Air Cargo Operations
The course introduces the student to the growing, technical and multi-faceted air cargo industry. The student will understand the role that air cargo has played in the development of the air carrier industry, contractual and legally binding regulations, and national and international trade. A visit to off-campus air cargo facilities will compliment classroom discussions, lectures and videos. Prerequisite(s): AVN 101 with a grade of C or higher or CRJ 100
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 281 Air Cargo Government and Industry Regulations
This course exposes the student to the study and process of regulations of the Air Cargo Industry. It includes a study of and compliance with government and air carrier regulations; with practical applications of the specialized manuals and penalties of non-compliance. It includes the influence that organizations such as ICACO and IATA have on the Air Cargo industry. Prerequisite(s): AVN 101 with a grade of C or higher
Credits: Credits:3 (3,0)

AVN 291 Air Cargo Cooperative Experience
This Cooperative Experience or Internship is an elective for second year Aviation Administration students. The course will provide employer/student designed internship experience. The student will acquire work skills and cooperative attitudes that will complement and enhance the academic competencies learned during the prior year.
Credits: Credits:3 (0,10 to 10)

AVN 300 Government in Aviation
This course expands and focuses on many of the regulatory subjects in AVN 101 (Aviation History). It is a study of the constitutional, legislative, executive and judicial control of aviation from the local, state, federal and international perspective. This course forms the foundation for AVN 400 Aviation Law. Students who take AVN 300W cannot receive credit for AVN 300. AVN 300W can be used to fulfill the writing intensive requirement. Prerequisite(s): AVN 101 with a grade of C or better or CRJ 100, Junior or Senior status required.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 309 Certified Flight Instructor- Ground
This course will allow students to meet the requirements as specified by 14 CFR Part 61.185 or 14 CFR Part 141 Appendix F, as appropriate, and will allow students to meet the requirements necessary to complete the Certified Flight Instructor Written Exams: Fundamentals of Instruction (FOI), Certified Flight Instructor Airplane (FIA), and the Certified Flight Instructor Instrument Written Exam (CFII). Selected subject areas will include applicable Federal Aviation Regulations of this chapter that relate to Certified Flight Instructor pilot privileges, limitations, and flight operations, the fundamentals of instructing, including: the learning process; elements of effective teaching; student evaluation and testing; course development; lesson planning; and classroom training techniques. Also included are the aeronautical knowledge areas for a recreational, private, and commercial pilot certificate applicable to the aircraft category for which flight instructor privileges are sought. A grade will be issued based on the completion of the following written exams: the student will either take the FAA "Knowledge Examinations" (Written Exams) necessary for the Certified Flight Instructor Certificate; Fundamentals of Instructing (FOI), Flight Instructor Airplane (FIA), and the Flight Instructor Instrument Written Exam (FII) or the FAA "Knowledge Examinations" (Written Exams) necessary for the Advanced Ground Instructor Certificate; Fundamentals of Instructing (FOI), Advanced Ground Instructor (AGI), and the Instrument Ground Instructor (IGI). Prerequisite(s): AVN 211 and AVN 209 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 310 Certified Flight Instructor-Flight
This course will allow students to meet the requirements as specified by 14 CFR Part 61.187 or 14 CFR Part 141 Appendix F, as appropriate, and will allow students to meet the requirements necessary to complete the Certified Flight Instructor Airplane Practical Exam. Selected subject areas will include applicable Federal Aviation Regulations of this chapter that relate to Certified Flight Instructor pilot privileges, limitations, and flight operations, the fundamentals of instructing, including: The learning process; elements of effective teaching; student evaluation and testing; course development; lesson planning; and classroom training techniques. Also included are practical flight training modules necessary to gain the required aeronautical experience and proficiency applicable to recreational, private,

and commercial pilot certificates appropriate to the aircraft category/class for which flight instructor privileges are sought. A grade will be issued upon taking the FAA Certified Flight Instructor Certificate. Students must possess an FAA Commercial Pilot Certificate with Instrument Privileges/FAA 3rd Class or higher Medical Certificate. Aero Fees will be charged. Prerequisite(s): AVN 212 with a grade of C or higher Corequisite(s): AVN 309
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,4)

AVN 320 Air Carrier Flight Operations
A study of the operational considerations and procedures of air carrier flight operations. Flight Operations conducted under 14CFR121 (Part121 air carriers) are highlighted. Also included are 14CFR135 (Part135) Air Carriers, supplemental air carriers and Operators of Large Aircraft flight operations. Prerequisite(s): AVN 208 with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

AVN 321 Physiology of Flight
Operational and lifestyle considerations and consequences arising from physiological factors will be introduced, with an emphasis on the atmosphere and high-altitude flight (Hyperbarism). General fundamentals of anatomy and psychology will be reviewed to impart career-prolonging health maintenance and stress reduction techniques. Subtle yet critical aviation issues such as situational awareness and crew resource management will be explored. Prerequisite (s): AVN 202 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

AVN 322 Advanced Aircraft Systems
This course exposes the student to the advanced aircraft systems commonly found in air carrier aircraft. Included are Electrical Systems, Hydraulics, Pneumatics, Flight Controls, Landing Gear Systems, Auto-Pilots and Cockpit Automation, Master Warning and Caution Annunciation Systems. At the conclusion of this course, the student should have a good level of operational understanding of these systems. Prerequisite(s): AVN 211
Course Offered: Spring
Credits: Credits:3 (3,0)

AVN 323 Air Carrier Flight Planning
This course exposes the student to the area of flight planning for the major carrier's operations. The main area of study will include the following subjects: High Altitude Aviation Meteorology, Transport Category Aircraft weight and balance, Take-off, en route and Landing Performance and Emergency Procedures. Advanced Flight Planning, Jet Route Structure, Jeppesen IFR High Altitude en route Charts, NOS and Jeppesen IFR Approach Plates and Published Minimums; U.S. Air Traffic Control Systems/Airspace; Airline Positive Operational Control Concepts; Federal Aviation Regulations Part 121/1199/135; Airline Communications Systems- Secal/ARINC/ACARS/ Satcom Captain/Dispatcher Joint Authority/Decision Making. Prerequisite(s): AVN 322
Credits: Credits:3 (3,0)

AVN 325 Safety of Flight
Safety of Flight is an essential course for students to understand the principles and regulatory practices of commercial aviation safety in the United States and worldwide community in the 21st century. It includes an examination of aircraft accidents, the respective roles of the FAA and NTSB, human factors in aviation safety, air traffic safety systems, and introduction to Safety Management Systems (SMS). The student will obtain the necessary safety of fight knowledge to be able to effectively work in the aviation industry. At the completion of the course, students will be able to assess contemporary issues in safety of fight and demonstrate understanding of aviation safety and human factors. Prerequisite(s): AVN 104 and AVN 202 with grade of a C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 326 Airport Security Management
The aviation industry is one of the most highly targeted industries for acts of terrorism. This course enables students to develop the skills necessary to effectively manage and maintain security systems and measures vital to airports. Students will assess current mandates by the Transportation Security Administration (TSA), Department of Homeland Security (DHS) and Federal Aviation Administration (FAA) and critique their effectiveness. Practical exposure to screening techniques such as the use of Explosive Trace Detection (ETD) systems, X-ray systems, wanding and other new developmental technologies will be covered. Note: students who have received credit for AVN 126 cannot receive credit for this course. Prerequisite(s): AVN 300 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 330 Airline Marketing
This course examines the principles of marketing used by the major U.S. airlines and how they are applied for long term financial success in the industry. There will be an initial review of the structure of the air transport market and the industry marketing environment. This will be followed by a detailed study examining the airline business and marketing strategies, product design, pricing, revenue management, distribution channels, and selling and advertising policies. Prerequisite(s): AVN 101 with a grade of C or higher
Credits: Credits:3 (3,0)

AVN 350 Air Traffic Management
In this course, students will gain an in-depth understanding of the National Airspace System (NAS) through the introduction of the functions, rules, phraseology, and publications utilized within the Air Traffic Control (ATC) system. Topics include airborne and ground navigational aids, GPS, radar and communications applied by the ATC system. Students will demonstrate proper aircraft sequencing and separation techniques through the use of simulation, while building upon Crew Resource Management (CRM) concepts traditionally used by aircrews. Prerequisite(s): (AVN 100 or AVN104) and (AVN 202 or PHY 116) with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 370 Airport Management and Finance
In this course students will analyze airport management with an emphasis on financial strategies and practices. Topics include relevant regulations, components of airport terminals and ground access, airport fees and revenue strategies, Airport Improvement Program (AIP), state grant programs, Passenger Facility Charge (PFC) funding, financing, and private investment. Prerequisite(s): BUS 102, AVN 271 with a grade of C or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

AVN 371 Airport Planning
This course covers the following topics: Airport System Planning, National Plan of Integrated Airport Systems (NPIAS), Metropolitan Airport System Planning, State Airport System Planning, Airport Master Planning, Airport Layout Plans, Airport Design, Design of Other Landing Facilities, Industrial Park Design, Terminal Planning/ Design/ Operation, Other Terminal Area Buildings, Americans with Disability Act Access. Prerequisite(s): AVN 270 or AVN 271 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

AVN 380 Air Cargo Sales Management
The students will be introduced to the topic through a variety of pedagogical methods that will include lectures, hands-on use of the most prominent manuals, regulations related to the industry, group discussions and videos. Prerequisite(s): AVN 280
Credits: Credits:3 (3,0)

AVN 381 Air Cargo Management Techniques
This course will provide students with an overview of the air cargo management in relation to leadership, safety, cost effectiveness, and problem solving. This course will cover various managerial topics that pertain to air cargo operations, with a particular focus on identifying staffing needs, providing acceptable customer service, determining practical goals for maintaining service levels over an extended period of time. This course will also review IATA rules and regulations, and provide students with practical in-class exercises which will focus on developing operational flight schedules for an air cargo operator while maintaining the objective of remaining compliant with various human resources and labor regulations. Prerequisite(s): AVN 280
Credits: Credits:3 (3,0)

AVN 400 Aviation Law
Aviation Law develops the student's knowledge to the application level of learning by emphasis on real cases to demonstrate the legal, regulatory and

government theory previously discussed in AVN 101and AVN 300. Emphasis will be on the FAA's roles in regulating aviation including the rule making process, certification of airmen, medical certification and enforcement. Prerequisite(s): AVN 300 or AVN 300W with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 401 Airline Economics and Marketing
This course covers the economic development and marketing principles of the air carrier industry. Details of the transition from regulation to deregulation are explored as well as the marketing and financial practices as they exist today under deregulation. The current economic environment is studied along with a detailed examination of airline business and marketing strategies, product design, pricing, revenue management, and distribution channels. Prerequisite(s): ECO 156 and AVN 300 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

AVN 404 Corporate and Business Aviation
Study of the flight operations, administration, maintenance and financial functions of a corporate flight department. The FBO and small airplane business will be discussed including applications in aerial photography and spraying, aircraft sales and financing. Prerequisite(s): AVN 300 or 300W
Credits: Credits:3 (3,0)

AVN 410 Commercial Multi-Engine Pilot Rating
This course prepares the Commercial Pilot with single-engine and instrument ratings to add multi-engine airplane privileges to their certificate. Commercial Pilot Flight training will enable the student to meet the prerequisite(s) specified in 14 CFR Part 61.63 or 14 CFR Part 141.57, as appropriate. Additionally, the student will gain practical experience applying the concepts of Crew Resource Management in the cockpit by utilizing a series of Flight Training Device sessions and defined flight training sessions. The student will be introduced to multi crew operations by applying newly acquired skills applicable to the multi crew environment such as Pilot Flying, Pilot Monitoring, advanced aircraft briefings, emergency and abnormal situations in various phases of flight, cockpit automation, Crew Resource Management to include crew communication and coordination, and Aeronautical decision making and judgment. Students must possess an FAA Commercial Pilot Certificate/FAA 3rd Class or higher Medical Certificate. Aero Fees will be charged. A grade will be issued upon taking the FAA Commercial Multi-Engine Practical Exam. Prerequisite(s): AVN 209 and AVN 212 with a grade of C or higher.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,4)

AVN 411 Certified Flight Instructor Instrument
This course prepares the student with a CFI to acquire the Flight Instructor -Instrument rating. Training will consist of at least 20 hours flight and 15 hours ground instruction. Passing the FAA Flight Instructor-Instrument Airplane Knowledge test and the FAA flight test will complete the course. Aero fees will be charged. Prerequisite(s): AVN 310 with grade of a C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:2 (1,0,3)

AVN 412 Certified Flight Instructor-Multi-Engine
This course prepares the student with a CFI to acquire the Flight Instructor – Multi Engine Rating. Training will consist of at least 25 hours flight and 20 hours ground instruction. Passing the FAA Flight Instructor Multi Engine Knowledge test and the FAA flight test will complete the course. Aero fees will be charged. Prerequisite(s): AVN 310 and AVN 410 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,4)

AVN 417 Homeland Security in Aviation
This course will expose the student to the importance of Homeland Security in the aviation industry and the important role each employee in the industry is charged with. Students will gain experience in identifying false travel documents and identifying suspicious air travelers. This course will focus on current national security threats in the aviation industry. Upon the successful completion of this course the students will meet the requirements of the initial and recurrent security training requirements mandated by the Transportation Security Administration (TSA) under Title 49 CFR 1552. Prerequisite(s): AVN 300 or 300W with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

AVN 421 Gas Turbine Engines
An in-depth study of gas turbine engines as found in air carrier and high performance aircraft. Topics include the history of turbine development, jet propulsion, theory engine design and construction and control systems. FAA Commercial Pilot Certificate with Instrument Rating required. Prerequisite(s): AVN 321
Course Offered: Fall
Credits: Credits:3 (3,0)

AVN 422 Aerodynamics and Aircraft Performance
Advanced aerodynamic principles will be introduced following extensive review of fundamentals. Emphasis will be on practical design and performance considerations including mission, cost, and feasibility. This course will familiarize the student with the application of aeronautical principles and design practices. The course will focus steps in preliminary design of general aviation aircraft with emphasis on the iterative aspects of design. Prerequisite(s): AVN 211 with a grade of C or higher and PHY 136
Course Offered: Fall
Credits: Credits:3 (3,0)

AVN 423 Crew Resource Management
This course deals with flight-crew decision making. It includes, but is not limited to: optimum decision-making techniques; personality profiling; crew communication; high risk areas of a flight; maintaining situational and spatial awareness; crew discipline; and airline-level standard operating procedures. Prerequisite(s): Junior Level Standing
Course Offered: Fall
Credits: Credits:3 (3,0)

AVN 424 Advanced Avionics and Cockpit Automation
Introduction to modern cockpit avionics suites as found in corporate Jets and Transport Category aircrafts. Principles, operations and limitations of advanced avionics suites typically found in this category aircraft. Automation topics covered include automatic flight control and flight director systems, stability augmentation systems, power management systems, flight management systems and autoland/go around systems. Latest technology navigation systems topics including inertial navigation systems (INS), inertial reference systems (IRS), Global Positioning Systems (GPS) including Local Area Augmentation Systems (LAAS) and Wide Area Augmentation System (WAAS). Prerequisite (s): AVN-209 with C or higher and AVN-211 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

AVN 432 Aviation Insurance
This course covers the basic foundations of Aviation Insurance and Risk Management. Topics to be covered include hull and liability coverage, subrogation and the insurer's interests after covering a loss, underwriting and claims management. This course helps students to explain the various types of insurance coverage found in aviation such as, hangar keepers, employers, pilots, airlines and airport operators. Prerequisite(s): AVN 400
Credits: Credits:3 (3,0)

AVN 440 Commuter Turboprop Training
This course exposes the student to an actual air carrier transport aircraft initial training ground school. The course will examine all of the specific aircraft and engine systems for this airplane and will be conducted so as to simulate the intensity of an airline training course. All major systems and subsystems of the aircraft as well as its limitation and normal and emergency operating procedures will be covered in detail. At the conclusion of this course, the student should be able to pass an airline style written and oral exam on the aircraft. Prerequisite(s): AVN 322 and AVN 421
Corequisite(s): AVN 424
Credits: Credits:3 (3,0)

AVN 443 Specialty Flying
Specialty flying is a vital area in General Aviation although it does not attract the attention that airline and military flying do. This course will deal with Agricultural Aviation; Bush Flying using float, large wheel and ski equipped aircraft.
Credits: Credits:3 (3,0)

AVN 447 Capstone Professional Pilot Seminar
The Capstone Pro Pilot Seminar will be the culminating Upper Division experience in flight education for the Professional Pilot program. The

seminar will require students to examine key aviation concepts presented in the Pro Pilot track and connect key learning objectives associated with these concepts to the skills necessary for success in the aviation industry as a pilot. Selected subject areas will include but not be limited to aviation safety, aviation law, crew resource management, safety ethics, physiology of flight, and aviation meteorology and how these relate to the requirements to be a certificated instrument-rated commercial pilot and fly as a certified flight instructor or a multiengine airplane pilot. Students will be required to complete comprehensive case studies of aviation accidents, present results to the seminar participants and lead the case discussion. A Capstone mentorship flight or simulator event summarizing the key course concepts will be included as part of the course (flight fees as applicable). Prerequisite(s): AVN 209 with C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,1)

AVN 470 Airport Operations
A common entry level airport job for those with an aviation college degree is often an Airport Operations Coordinator. They are responsible for keeping airports safe and secure by ensuring implementation of safety management system (SMS) protocols in compliance with applicable FAA and TSA regulations, and also ensure safe and efficient travel for passengers and surrounding communities. This requires extensive knowledge in the following topics covered in this course: FAR Part 139, Airport Certification Manual (ACM), Airport Safety Self-Inspection (ASSI) Program, Pavement Surfaces, Movement and Safety Areas, Airfield Marking, Lighting and Signage, Snow Ice Control Plan (SICP), Snow Removal Equipment, Airport Condition Reporting, Ground Vehicles Operation in the Air Operations Area (AOA), Public Protection, Wildlife Hazard Management, Airport Emergency Plan and Response, and Airport Air Carrier Security. Prerequisite(s): AVN 270 or AVN 271 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 471 Aviation Administration Seminar
This seminar is a capstone course for students majoring in Aviation Administration. This course is designed to integrate what students have learned during their course of study and will explore the practical skills needed to prepare for a career in aviation. This course will also include informational interviews and guest speakers of aviation professionals so students can ascertain future job options and placement. The student's main focus will be a detailed research project and a formal presentation of this research to members of the university community and/or representatives from industry. Prerequisite(s): Senior Level Standing
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

AVN 480 Air Cargo Operations-Advanced
The course will expand upon the introductory concepts learned in AVN 280. Students will be exposed to various in-class exercises that will address the importance of identifying the variables involved in the flow of typical air cargo operations. Students will gain expertise in "troubleshooting" and solving problematic situations such as flight delay due to mechanical and/or weather; late delivery of high priced cargo products; emergency response to live animal and/or perishable equipment; damage to aircraft and/or cargo ULDs or other equipment; and employee injury. The real world applications of Quality Work Programs (QWP) and current advances in air cargo automation and/or computer controlled processes will be explored. Communication skills in air cargo operations management will also be stressed. Prerequisite(s): AVN 280
Credits: Credits:3 (3,0)

AVN 490 Aviation Internship
This course is designed to give students the opportunity to earn elective credit for acquiring hands-on industry experience. Prior work site approval by the Aviation Department is required before enrolling in this course. Prerequisite(s): AVN 300 with a grade of C or higher and Junior Level standing with an overall GPA of 3.0.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

COMPUTER SYSTEMS (BCS)

BCS 101 Programming Concepts and Problem Solving
This course will provide an introduction to programming logic and problem solving techniques using different programming languages. The topics covered in this course will provide the skills needed to learn languages such as Visual Basic, C+ + and JAVA. Topics include such items as constants and variables, data types, scope of variables, basic logic constructs, subroutines and functions. Students who have completed BCS 120 or CSC 111 or equivalent cannot take BCS 101.
Credits: Credits:3 (3,0)

BCS 102 Computer Concepts and Applications
This is an introductory course in the use of personal computers in today's society. Students will receive instruction in basic computer concepts and terminology, the fundamentals of the Windows operating system and have hands on experience at the beginning to intermediate level using Microsoft Word, Excel, and PowerPoint. The Internet will be used to supplement textbook and lecture materials. Note: Computer Systems students cannot use BCS 102 to meet a BCS/CSC Elective requirement.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BCS 109 Introduction to Programming
Using Python, this course covers the basic concepts of computer programming. Python is an easy-to learn, high-level computer programming language that is widely used in many applications. This course introduces the fundamental elements of programming such as expressions, conditionals, loops, functions, files, and then use these elements to create simple interactive applications. This course covers also simple GUI and animation-based applications.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 110 Introductory Special Topics in Computer Programming and Information Systems
This course will cover introductory topics that are not covered in the regular curriculum. Topics may vary from semester to semester and reflects the interests and needs of students, faculty and industry. Prerequisite(s): Permission of Department Chair
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BCS 111 Introductory Special Topics in Computer Programming and Information Systems
This course will cover introductory topics that are not covered in the regular curriculum. Topics may vary from semester to semester and reflects the interests and needs of students, faculty and industry. Prerequisite(s): Permission of Department Chair
Course Offered: Summer
Credits: Credits:3 (3,0)

BCS 112 Introductory Special Topics in Computer Programming and Information Systems
This course will cover introductory topics that are not covered in the regular curriculum. Topics may vary from semester to semester and reflects the interests and needs of students, faculty and industry. Prerequisite(s): Permission of Department Chair
Credits: Credits:3 (3,0)

BCS 113 Introductory Special Topics in Computer Programming and Information Systems
This course will cover introductory topics that are not covered in the regular curriculum. Topics may vary from semester to semester and reflects the interests and needs of students, faculty and industry. Prerequisite(s): Permission of Department Chair
Credits: Credits:3 (3,0)

BCS 114 Introductory Special Topics in Computer Programming and Information Systems
This course will cover introductory topics that are not covered in the regular curriculum. Topics may vary from semester to semester and reflects the interests and needs of students, faculty and industry. Prerequisite(s): Permission of Department Chair
Credits: Credits:3 (3,0)

BCS 120 Foundations of Computer Programming I
This course introduces the C++ Programming Language as a means of developing structured programs. Students will be taught to develop algorithms using top-down stepwise refinement. Students will be introduced to the concept of Object Oriented programming. In addition, students will get a thorough exposure to C++ syntax and debugging

techniques. Note: Students completing this course may not receive credit for CSC 111
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BCS 130 Website Development I
In this course, students will use both HTML and CSS to modify the appearance of Web page content and layout. Hypertext Markup Language (HTML) is a standardized code used to format web pages. Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language, such as HTML. In addition, students will learn the principles of Responsive Web Design to create an optimal viewing experience irrespective of the device used to display the Web page.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BCS 160 Computers, Society and Technology
This is an introductory course that provides students with the knowledge to stay current and informed in a technology-oriented, global society. Students will receive instruction in basic computer concepts and terminology, the fundamentals of the Windows operating system and have hands-on experience at the beginning to intermediate level using Microsoft Excel and Access. The Internet will be used to supplement textbook and lecture materials. Note: Students taking this course may not receive credit for BCS 102.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BCS 208 Introduction to Networks
This foundational course provides an in-depth exploration of the architectures, models, protocols, and essential networking components that facilitate communication between users, devices, applications, and data across modern computer networks, including the Internet. Emphasis is placed on both IPv4 and IPv6 addressing as well as Ethernet principles. Upon successful completion of the course, students will demonstrate the ability to construct simple Local Area Networks (LANs), configure routers and switches, and implement Internet Protocol (IP) addressing schemes. The laboratory component offers hands-on experience in configuring networking equipment essential for establishing LAN connectivity.
Prerequisite(s): Sophomore status
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

BCS 209 Routing and Switching Essentials
Building on the foundational knowledge from BCS 208, this course focuses on switching technologies and router operations essential for small-to-medium business networks. Students will analyze the architecture, components, and operations of routers and switches in a network environment. Practical applications include configuring and troubleshooting routers and switches, as well as addressing common connectivity challenges in IPv4 and IPv6 networks. The laboratory component reinforces theoretical concepts through hands-on configuration of routers, switches, and basic network connectivity. Prerequisite(s): BCS 208 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (2,3)

BCS 215 UNIX Operating Systems
This course develops the fundamental knowledge of computer operating systems using UNIX. Topics include basic understanding of the UNIX system, utilizing the file system, programming language and security system. BCS 120 or CSC 111 may be taken as a Prerequisite or Corequisite. Prerequisite(s): BCS 120 or CSC 111 Corequisite(s): BCS 120 or CSC 111
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BCS 230 Foundations of Computer Programming II
This course expands the knowledge and skills of Foundations of Computer Programming I. Among the topics covered are: arrays, pointers, strings, classes, data abstraction, inheritance, composition and overloading. Note: Students completing this course may not receive credit for CSC 211 Prerequisite(s): (BCS 120 or CSC 111) with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BCS 232 Electronic Commerce
This cross-listed business management and business computer systems course covers electronic commerce (EC) foundations, retailing methodologies, and marketing research. Focus will be on the various forms, strategies, and implementations of EC including business-to-business (B2B), business-to-consumer (B2C), and consumer-to-consumer (C2C). Also covered will be social networking, electronic payment systems, and public policy issues including privacy and intellectual property matters as well as recent information technology advancements. Students completing BCS 232 may not receive credit for BUS 232. Prerequisite(s): BUS 109 and BCS 101 or BCS 102
Credits: Credits:3 (3,0)

BCS 235 JavaScript and jQuery
This course introduces students to JavaScript and jQuery. Students will learn how to write their own scripts in JavaScript, learn jQuery syntax, and use the jQuery and jQuery UI libraries. Students will learn how to devise jQuery and jQuery UI scripting techniques such as effects, animation, tabbed panels, menus, accordions, content sliders, drag and drop, tooltips, date pickers, custom tooltips, dialogs and portlets, and interactive image sliders and carousels. Students who have taken BCS 250 cannot receive credit for this course. Prerequisite(s): BCS 130 or BCS 109 or CSC 111 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 240 Website Development II
In this course, students will learn how to create websites that deliver a seamless experience across a diverse range of desktop, mobile, and handheld devices. In addition, students will learn how to perform forms validation, create navigation and menuing systems, build responsive layouts with flexible content, code media queries, and create and modify template and child pages. Students will use CSS 3 and a Content Management System to create user interfaces with toolbars, animations, buttons, forms, lists, events, and themes. Prerequisite(s): BCS 130 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 260 Introduction to Database Systems
This course provides the fundamental knowledge of database concepts. Topics studied will include the history and advantages of database systems, and the process of database design including entity-relationship diagrams and database normalization. Students will have hands-on experience using SQL (Structured Query Language). Prerequisite(s): (BCS 120 or CSC 111) and BCS 160 all with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BCS 262 Data Communications
This course is an introduction to the concepts and applications of computer networking and its role in the business world today. Topics include: history of networking and applications, voice and data communications, hardware, transmission, network topologies, network analysis, the OSI model, design, implementation and management issues.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BCS 300 Management Information Systems
Managers have increasing responsibility for determining their information system needs and for designing and implementing information systems that support these needs. Management information systems integrate, for purposes of information requirements, the accounting, finance, and operations management functions of an organization. This course will examine the various levels and types of software and information systems required by an organization to integrate these functions. Prerequisite(s): BUS 109, BCS 109, BUS 111, or BCS 160
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BCS 301 Systems Analysis and Design
This course explores the major issues in the analysis and design of a system, including methods of data collection, information requirements analysis and the analysis process. Emphasis is placed on the importance of the user in the design process and focuses on approaches that improve the successful implementation of a computer system. Topics include general systems theory, Systems Development Life Cycle, data flow diagrams, data dictionary, hardware and software evaluation, feasibility analysis,

CASE tools and prototyping. Students are required to work in teams and demonstrate their skill in using project management and diagramming application software. Note: Students cannot get credit for BCS 301 and BCS 301W; BCS 301W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 101, BCS 260, BCS 300, and (BCS 230 or CSC 211), all with a grade of C or higher and Junior Level Status.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BCS 302 Systems Analysis and Design II
This is an advanced course in Systems Analysis and Design. Students will utilize the tools covered in BCS 301 to analyze system designs. Topics covered in the design phase will include input, output, and database and user interface design. A CASE Tool and/or other rapid application development tools will be used to create the interfaces. Additional topics in the implementation and maintenance phases will include testing, implementation and maintenance. Object-oriented systems and UML will also be covered. Students will analyze and prepare various case projects and will present and document their results. Prerequisite(s): BCS 301 with a grade of C or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

BCS 305 Data Visualization
Data visualization describes any effort to help people understand the significance of data by placing it in a visual context. Patterns, trends and correlations that might go undetected in text-based or spreadsheet data are recognized using data visualization software. In this course, students will use data visualization software to display data using infographics, dials and gauges, geographic maps, spark lines, and heat maps, as well as creating detailed bar, pie, and fever charts. These maps and charts will include interactive capabilities, enabling users to manipulate the data or drill into the data for querying and analysis. Prerequisite(s): BCS 300 with a grade of C or higher
Credits: Credits:3 (3,0)

BCS 307 Legacy Application Development
The date in which the era of modern software development started is a topic of contention within the computer science community. What is universally accepted, however, is that a significant number of large "legacy" software systems that predate this era are still in use. These legacy software systems require trained technical personnel to support them. In this course students will focus on hands-on development of applications in a legacy coding language chosen by the instructor. At the conclusion of the course, students will be well equipped to join a software development and maintenance group as a junior member. Prerequisite(s): BCS 230 or CSC 211 with a grade of C or higher
Credits: Credits:3 (3,0)

BCS 311 Local Area Networks and Server Administration
This course will provide an introduction to local area networking concepts. These ideas will be explored in conjunction with an introduction to the concepts and tools necessary to implement, administer and troubleshoot the Microsoft Windows network. Hands-on experience will be used in the presentation of system administration tools. Prerequisite(s): BCS 262 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 315 UNIX Operating Systems II
This course further develops the knowledge of UNIX with an emphasis on the practice skills required to deploy and administer modern Unix and Linux systems. Topics include selecting and installing operating systems, adding users, virtualization, and the configuration and management of storage, networks and servers. Particular stress is paid system administration practices that foster the creation and maintenance of scalable and secure systems. Prerequisite(s): BCS 215 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 316 PERL Programming
This course provides an introduction to programming in the Perl language. Students will learn the Perl syntax, the basics of using regular expressions, how to use Perl data types, and how to access and manipulate files. Students are also introduced to database connectivity and debugging techniques. Prerequisite(s): BCS 215 and (BCS 230 or CSC 211) all with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 317 Enterprise Resource Planning
Enterprise Resource Planning (ERP) is an organizational and information systems approach that integrates planning, customer relationship management, decision making, master scheduling, material requirements planning, marketing, forecasting, sales, finance, electronic commerce, and human resources. The course will include lectures and extensive use of supporting ERP software. Note: Students completing this course cannot receive credit for BUS 317. Prerequisite(s): BUS 109 or BUS 300 or BCS 300
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 318 Virtualization and Cloud Computing
This course explores installation, configuration, and management of VMware® vSphere™, which consists of VMware ESXi/ESX™ and VMware vCenter™Server. In addition, use of Virtualization Servers with Storage Area Networks and Network Attached Storage Technologies will be discussed. This advanced course prepares the student to understand OS virtualization, Storage Virtualization, and Cloud Computing. Prerequisite(s): BCS 215 and BCS 262 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 320 Enterprise, Networking, Security & Automation
This advanced course explores enterprise networking architectures with an emphasis on design considerations, security protocols, and operational strategies within wide area networks (WANs). Students will gain proficiency in network security principles and be introduced to network virtualization and automation concepts. The curriculum includes hands-on experience in configuring, troubleshooting, and securing enterprise network devices while implementing virtualization and automation techniques. Prerequisite(s): BCS 209 with a C or higher.
Credits: Credits:3 (2,3)

BCS 321 Connecting Networks
This course discusses the Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IPSec and virtual private network (VPN) operations in a complex network. Prerequisite(s): BCS 209 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 323 Digital Transformation through Cloud Computing
Cloud Computing is the on-demand availability of computer system resources without active management by the user. The explosive growth in cloud computing has sparked a digital transformation, where business processes are changed by the migration to the cloud. This course will provide students with an overview of specifying and procuring cloud services and resources, and migrating existing storage and applications from company managed hardware into the cloud. Students will study cloud concepts, commercial cloud services, security, architecture, and budgeting. Students will gain hands-on experience provisioning and deploying applications on a commercial cloud. Prerequisite(s): (BCS 208 or BCS 262) and BCS 260 and BCS 215
Credits: Credits:3 (3,0)

BCS 332 Fundamentals of Assembly Language Programming
This course provides an introduction to assembly language programming. Concepts discussed include basic computer organization and architecture, instruction set design, the call stack, data representation, addressing, and I/O. A number of programming assignments give students the opportunity to practice assembly language on one or more architectures chosen by the instructor. Prerequisite(s): BCS 230 or CSC 211 with a grade of C or higher
Credits: Credits:3 (3,0)

BCS 345 JAVA Programming
This course is designed for students with some experience with programming. The syntax of the Java programming language, object-oriented programming, creating graphical user interfaces (GUI), exceptions, file input/output (I/O), and how to create Java applications and applets

will be covered. Prerequisite(s): (BCS 230 or CSC 211) with grade of a C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BCS 350 Web Database Development
This advanced course prepares the student to use database management systems with web server software to develop and maintain the information content of a web site. Students in the course should have prior knowledge of programming and database management systems. Prerequisite(s): BCS 260 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 360 Programming in SQL
The second in a two course sequence applies the knowledge of BCS260 to administer and implement relational database systems. Topics covered may include: embedded SQL and other mixed language mechanisms; PL/SQL; advanced/optimized SQL queries; transaction management including concurrency and recovery; schema refinement; higher-level normal forms; integrity; security; and database administration. Prerequisite(s): (BCS 230 or CSC 211) and (BCS 260 or CSC 363) with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 370 Data Structures
This course will present sequential and linked representations of various built-in and abstract data structures including arrays, records, stacks, queues and trees. Algorithms will be developed relating to various sorting and searching techniques, merging and recursion. A high-level structured programming language, such as C, using both static and dynamic storage concepts, will be used in exploring and developing these algorithms.
Note: Students completing this course may not receive credit for CSC 229.
Prerequisite(s): (BCS 230 or CSC 211) with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 375 Legal and Ethical Issues in Database and System Administration
In response to privacy concerns and the growth of big data, governments have instituted legal restrictions on access to and on storage of certain forms of data, for example health records. This course explores ethical and legal issues relating to computers, with a particular emphasis on the ethical and legal obligations of system administrators and others with extraordinary access to personal data stored on computers. Prerequisite(s): BCS 215, EGL 102 and Junior Status
Credits: Credits:3 (3,0)

BCS 377 Web Development Frameworks
The desire for a cutting-edge web application depends on the product or the business that the application is intended for, however, some features are similar among many of the applications. Examples include registration, validation, form processing, and connecting to a database. Programmers can build these features from scratch, but these features are built into the frameworks. Using the frameworks allows programmers to save time and concentrate on building web applications instead of writing and debugging off-the-shelf functionality. In this course, we will discuss how to build webpages using modern frameworks. Prerequisite(s): BCS 240 or BCS 235 or BCS 350 with a grade of C or higher
Credits: Credits:3 (3,0)

BCS 378 Information Security
This course introduces students to the principles and practices of computer and network security. Topics covered include fundamental concepts and principles of computer security, basic cryptography, public key infrastructure, authentication and access control, threats and vulnerabilities, intrusion detection/prevention systems and network security, operating system security, software and data security, web security, and managerial and ethical issues in computer security. Prerequisite(s): (BCS 262 or BCS 208 or CSC 332 or EET 440) and (BCS 230 or CSC 211) with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BCS 380 Advanced Database Programming
This course will provide a detailed examination of a relational database management system and its procedural language such as Oracle and PL/SQL or SQL Server and T-SQL. General programming concepts such as conditional and iterative control, error handling and built-in exceptions will be discussed. Covered in more detail will be topics such as cursors, triggers, and the stored functions, procedures and packages. These topics will then be explored through laboratory assignments using a RDBMS such as Oracle or SQL server. Prerequisite(s): BCS 360 with a grade of C or higher
Credits: Credits:3 (3,0)

BCS 390 Database Administration and Security
This course provides the knowledge necessary to handle database administration and database security. Topics studied may include installation and configuration of a database, managing and securing user resources and privileges, data integrity, networking, optimization, and backup and recovery. Hands-on activities with a major commercial DBMS will be assigned to complement the lectures and written work and to develop practical skills. Prerequisite(s): BCS 260 and BCS 215 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

BCS 405 IS Development Project Management
This course will cover Project Management tools and techniques for Systems Development projects. Students will learn Project Management, Scope Management, Time Management, Cost Management, Quality Management, Human Resource Management and Communications Management all in the context of running successful information systems development and implementation projects. MS project will be used as a tool to managing all of these areas. Prerequisite(s): BCS 300 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 410 Computer Architecture
Computer Architecture is the study of hardware and software components of business information systems. Thorough understanding of the workings of the digital computer system is expected. Topics include: hardware components, the machine cycle, binary arithmetic, systems software, and assembly language. These topics are evaluated with respect to their impact on the development of business information systems. Two semesters of a programming language required. Prerequisite(s): Two semesters of a programming language required with a grade of C or higher and BCS 262 with a grade of C or higher.
Credits: Credits:3 (3,0)

BCS 413 Advanced Enterprise Resource Planning
This advanced-level Enterprise Resource Planning (ERP) course includes high-level information technology coverage of Scheduling, Planning, MRP, Logistics, Warehousing, Procurement, Quality, Vendor Management, Cost Accounting, Forecasting, KPI, Supply Chain, and Customer Resource Management. Also covered are concepts and software applications pertaining to product design, development, manufacturing (production), marketing, sales, and field service. This course emphasizes proficiency in the skill sets typically required within industry practices. Prerequisite(s): BUS 300 or BCS 300 and (BUS 317 or BCS 317)
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 415 Operating System Internals and Design
This course will involve the study of the fundamentals of operating systems design and implementation. The concepts covered include process management, memory management, file systems, I/O system management, distributed systems, and security. Students will examine how these concepts are found in several current open-source operating systems, including Vista, UNIX and/or Linux. Prerequisite(s): BCS 215 and CSC 325 all with a grade of C or higher
Credits: Credits:3 (3,0)

BCS 422 iOS Mobile Application Development
This course provides an introduction to iOS mobile application development for Apple devices. Students will be introduced to the Swift programming language. Emphasis will be placed on good programming practices, on object oriented techniques, and on using established design patterns for mobile applications. Students will receive hands-on experience using the Xcode development environment to build example apps. Prerequisite(s): BCS 345 or BCS 370 or CSC 229 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

BCS 425 Business Intelligence and Data Warehousing
Business Intelligence is the transformation of data into actionable information. This information is used by businesses to drive high-level decision making. This course is concerned with extracting data from the information systems that deal with the day-to-day operations and transforming it into data that can be used for decision making. Students will learn how to design and create a data warehouse, and how to utilize the process of extracting, transforming, and loading (ETL) data into data warehouses. Students will design and construct dynamic reports using the data warehouse and multi-dimensional online analytical processing (OLAP) cubes as the data source. Prerequisite(s): BCS 260 or CSC 363 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

BCS 426 C# Programming
This course is an introduction to the C# ("C-Sharp") programming language for students with existing programming experience. The course covers the syntax of the C# programming language, .NET ("dot net") infrastructure, creating graphical user interfaces, using databases, using web services, and multithreading. Students will be required to complete a number of practical programming assignments to solidify their knowledge of the language and its application. Prerequisite(s): CSC 325 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 428 Large Software System Development
This course introduces students to the tools and processes used in software development for large systems. Through the use of open source projects, the students will explore the build environment, version control, and the testing tools used to produce code involving large numbers of programmers and product managers. Programming project management techniques, such as Agile, and best practices for programming will also be introduced and discussed. Prerequisite(s): CSC 325 or BCS 370 with a grade of C or higher
Credits: Credits:3 (3,0)

BCS 430 Senior Project
The primary objective of this capstone course is to give Computer Programming and Information Systems students an opportunity to integrate techniques and concepts acquired in their other courses. Elements will be drawn primarily from BCS 301 (Systems Analysis and Design) and BCS 260 (Database) in addition to other courses in the student's selected track of study. The course is experiential in nature, i.e. the student will be required to produce results for use by real individuals and will be evaluated both on process and product. Note: Students cannot get credit for BCS 430 and 430W; BCS 430W can be used to fulfill the writing intensive requirement. Prerequisite(s): (CSC 375W or BCS 301W) and BCS 350 and CSC 325, all with a grade of C or higher.
Credits: Credits:3 (3,0)

BCS 440 CPIS Internship
In this course, the student works under the tutelage of a professional who serves as site supervisor in an organization that provides information services. The work done by the student is guided by learning objectives agreed to by the site supervisor, the faculty member and the student. Students are required to submit a written proposal, progress reports, and a final report on their experience to the client and to the department. The course offers an ideal opportunity to test theory in practice and to gain experience in a realistic information provision situation. The experience is expected to be mutually beneficial for the organization and student. Prerequisite(s): Junior Status and GPA >=3.0.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

BCS 450 Special Topics in Computer Programming and Information Systems
Courses that range from 450-451 will cover topics not covered in the regular curriculum. Topics may vary from term to term and reflect the interests of students, faculty and industry. Topics may include wireless communications, rapid application development and other emerging technologies. Prerequisite(s): CSC 229 with a grade of C or higher. Permission of Department Chair
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 451 Special Topics in Computer Programming and Information Systems
Courses that range from 450-451 will cover topics not covered in the regular curriculum. Topics may vary from term to term and reflect the interests of students, faculty and industry. Topics may include wireless communications, rapid application development and other emerging technologies. Prerequisite(s): Permission of Department Chair
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BCS 460 Independent Study
This is an independent study course designed to offer the student experience in research of a specialized area of interest. The student will have an opportunity to work individually or with a group in designing, developing and presenting a research project. The topic must be approved by a faculty member. Students will be required to submit full documentation and present their final results. Note: Students cannot get credit for BCS 460 and BCS 460W; BCS 460W can be used to fulfill the writing intensive requirement. Prerequisite(s): Permission of Department Chair
Course Offered: Fall
Credits: Credits:3 (3,0)

BIOLOGY (BIO)

BIO 120 General Biology
With a focus on building bridges between students' lives and foundational topics in the field, General Biology is an introductory survey course of cellular and evolutionary biology. Students learn the biological underpinnings of topics like diets, cloning, stem cell research, genetic engineering, extinction, and climate change. Biodiversity is also emphasized through the study of evolution and the impacts our species has had on the world. Laboratory exercises provide hands-on examination of lecture topics, while emphasizing common research techniques. Note: BIO 120 is approved in the Natural Sciences General Education Competency Area and can serve as a lower-level laboratory science elective within the Liberal Arts. However it does not satisfy Bioscience Core requirements and cannot be used as a substitute for either BIO 130 or BIO 131. Note: The laboratory course, BIO 120L is a part of your grade for this course. Corequisite(s): BIO 120L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,2)

BIO 121 Health, Heredity, and Behavior
Health, Heredity, and Behavior is a 3 credit, non-lab course. It focuses on the most common and clinically significant diseases and conditions that afflict modern developed societies, first building a foundation of the basic anatomy and physiology necessary to understand the disorder, then exploring the experiences of the people afflicted. The inherited and lifestyle risks associated with the disorder are discussed and strategies to reduce those risks are investigated. This course is appropriate for non-science majors.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BIO 123 Human Body in Health and Disease
This course is an inquiry into the mechanism of diseases that plague human beings. A systemic approach is taken in which all the major systems of the human body and the significant diseases that affect those systems are studied. Emphasis is on failures of homeostasis as the basic mechanisms of disease. Included are discussions on available treatments and therapies, the impact of new technological developments, and maintaining health and avoiding disease. The laboratory component contains both traditional and computer-generated exercises, which illustrate the onset and development of a variety of diseases and pathological states. Note: BIO 123 is approved in the Natural Sciences General Education Competency Area and can serve as a lower-level laboratory science elective within the Liberal Arts. However it does not satisfy Bioscience Core requirements and cannot be used as a substitute for either BIO 130 or BIO 131. Note: The laboratory course, BIO 123L is a part of your grade for this course. Corequisite(s): BIO 123L
Course Offered: Fall, Spring
Credits: Credits:4 (3,2)

BIO 130 Biological Principles I
This course deals with biological processes primarily at the molecular and cellular level, and develops the foundations of evolutionary and ecological concepts. There is a study of cell structure, and an examination of cellular composition and metabolic processes including enzyme activity, respiration,

and photosynthesis. Principles of genetics are studied at the cellular and molecular level, with reference to current techniques in molecular biology. Evolutionary mechanisms are introduced and ecological concepts are presented as a unifying theme. Note: BIO 130 is the first course in the required two-semester introductory sequence in the Bioscience Curriculum Core. It is also approved in the Natural Sciences General Education Competency Area and can serve as a lower-level laboratory science elective within the Liberal Arts. Note: The laboratory course, BIO 130L is a part of your grade for this course. Corequisite(s): BIO 130L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

BIO 131 Biological Principles II
This course deals with biological processes primarily at the organismal level, and examines the diversity of living things. The origins and adaptations of the Prokaryota, Protista, and Fungi are explored, with emphasis on their ecological roles, economic value, and medical significance. Plant life cycles are introduced, and plant structure, physiology, and utilization are studied. The evolution and adaptations of various animal phyla are presented, with a consideration of structure and function in each; organ systems are studied with emphasis on humans as representative vertebrates. Note: BIO 131 is the second course in the required two-semester introductory sequence in the Bioscience Curriculum Core. It is also approved in the Natural Sciences General Education Competency Area and can serve as a lower-level laboratory science elective within the Liberal Arts. Note: the laboratory course, BIO 131L is a part of your grade for this course. Prerequisite(s): BIO 130 Corequisite(s): BIO 131L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

BIO 135 Marine Science
Spanning the disciplines of geology, chemistry, physics, and biology, this course aims to provide a fundamental understanding of how oceans work. Topics covered include the chemistry of seawater, tides and ocean circulation, types of marine ecosystems and their major flora/fauna, marine biotechnology, and challenges currently facing marine ecosystems. Particular emphasis will be given to the impact of humans on ocean health and the impact of climate change on marine ecosystems. The laboratory component will introduce principles and techniques applicable to research problems in marine science. Field trips will play an important part of the laboratory course, to support lecture topics and to provide an understanding and appreciation of Long Island Marine Ecosystems. Note: The laboratory course, BIO 135L is a part of your grade for this course. Corequisite(s): BIO 135L
Course Offered: Spring
Credits: Credits:4 (3,3)

BIO 141 Biodiversity and You!
Biodiversity and You! is a course that is designed for the non biology majors and exposes students to the relationship our species has with the living world and the impact we have had on bacteria, plants, fungi, and animals. Following a brief introduction to the basics of evolution, earth history, and ecology, students explore key highlights of our planet's biodiversity to build a knowledge base of how different groups of organisms are defined and their role in the environment. From there, students will interact with media (scientific news articles, manuscripts, videos, and educational interactive websites) that build on this knowledge to help them understand the complex relationships our species has with various organisms. After completing this course students will have the scientific communication skills to explain the relevance of our planet's biodiversity to their peers. Students will show mastery of the material through written and recorded reflections of recorded lectures, science communication activities, weekly quizzes, exams, and the activities associated with the lab co-requisite. Note: The laboratory course, BIO 141L is a part of your grade for this course. Corequisite(s): BIO 141L
Credits: Credits:4 (3,3)

BIO 166 Principles of Human Anatomy and Physiology
This is a one semester integrated survey of human anatomy and physiology, covering the major physiological and morphological relationships of the human organ systems. The design of this course is appropriate preparation for Dental Hygiene, Medical Laboratory Technology, and certain other allied health professions, but it does not satisfy the requirements of the Nursing Curriculum. The major theme of the course is the integrative pathways and regulatory processes that maintain the homeostasis of the body. Note: BIO 166 does not satisfy the requirements of the Nursing Curriculum and cannot be used as a substitute for either BIO 170 or BIO 171. It is approved in the Natural Sciences General Education Competency Area and can serve as lower-level laboratory science elective within Liberal Arts. Note: the laboratory course, BIO 166L is a part of your grade for this course. Prerequisite(s): High School biology with a lab or BIO 120 or 123 or 130; High School or College chemistry recommended. Corequisite(s): BIO 166L
Course Offered: Fall, Spring
Credits: Credits:4 (3,2)

BIO 170 Human Anatomy and Physiology I
This is the first semester of a two-semester sequence in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. This sequence is appropriate preparation for nursing and other allied health professions. Topics included in Anatomy and Physiology I are: basic anatomical and directional terminology, fundamental concepts and principles of cell biology, histology, and the integumentary, skeletal, muscular, and nervous systems. Students may not receive credit for both BIO 170 and BIO 270. Note: the laboratory course, BIO 170L is a part of your grade for this course. Prerequisite(s): High School biology with a lab or BIO 120 or 123 or 130; High School or College chemistry recommended Corequisite(s): BIO 170L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

BIO 171 Human Anatomy and Physiology II
This is the second semester of a two-semester sequence in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. This sequence is appropriate preparation for nursing and other allied health professions. Topics include Anatomy and Physiology II are: the endocrine system, the cardiovascular system, the lymphatic system and immunity, the respiratory system, the digestive system, metabolism, the urinary system, fluid/electrolyte and acid/base balance; and the reproductive systems. Note: students may not receive credit for both BIO 171 and BIO 271. Note: the laboratory course, BIO 171L is a part of your grade for this course. Prerequisite(s): BIO 170 Corequisite(s): BIO 171L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

BIO 192 Botany
An introduction to the biology of plants and their ancestors. Topics include cell structure and function, cell chemistry, photosynthesis and cellular respiration. The tissues, roots, stems and leaves are studied covering such topics as conduction, absorption, translocation and reproduction. A phylogenetic comparison among plant groups and their ancestors is the underlying theme. Note: the laboratory course, BIO 192L is a part of your grade for this course. Attendance in the laboratory course is required. Corequisite(s): BIO 192L
Course Offered: Spring, Summer
Credits: Credits:4 (3,2)

BIO 193 Zoology
An introduction to the biology of animals and their ancestors. Topics include structure and function of cells, tissues, organs and organ systems in animals. Genetics, development, behavior, ecology, and the evolution of major phyla are covered. A comparative approach is taken in studying the invertebrates and vertebrates including humans. Note: the laboratory course, BIO 193L is a part of your grade for this course. Attendance in the laboratory course is required. Corequisite(s): BIO 193L
Credits: Credits:4 (3,3)

BIO 197 Human Biology
An introductory course that teaches biological principles by emphasizing the structural and functional aspects of the human body, especially as they relate to everyday existence. Includes discussion of important collateral issues such as the nature and course of disease, smoking and health, drug abuse, immunity and allergy, human genetics, birth-control, over-population, and sexually transmitted disease.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BIO 198 Entomology
The nature, structure, growth, and habits of insects and related forms are discussed. The beneficial and injurious effects of insects are covered. Recent breakthroughs and developments in the field of entomology are discussed. Skills are developed which enable the student to identify insect plant pests, diseases and injuries. Control measures and application equipment are

discussed. Emphasis is placed on the various pest management options available to the homeowner and professionals in the field. IPM (integrated pest management) involves an understanding of pesticides, physical and mechanical controls, biological controls, cultural controls, and legal controls. Laws regulating the activities of pest control operators and the application of hazardous pesticides are discussed. A collection of insects and related forms is required. Note: the laboratory course, BIO 198L is a part of your grade for this course. Corequisite(s): BIO 198L
Course Offered: Fall
Credits: Credits:4 (3,3)

BIO 210 Introduction to Bioscience
Moving beyond the basic concepts of general biology, this class explores how biology is used in both academic and commercial settings within the fields of biotechnology, pharmaceutical and clinical sciences. Topics will include: applications of biotechnology in microbes, plants, and animals, the human genome project and its relation to medical biotechnology, DNA forensics, and pharmaceutical drug discovery, delivery, and FDA approval. The debate surrounding subjects such as cloning, stem cells, and genetically modified foods will also be discussed. Prerequisite(s): BIO 130 with a grade of C- or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BIO 212 Bioscience Laboratory Practices
This course is designed to enable students to develop an understanding of and proficient technical ability in basic bioscience laboratory practices. There is an in-depth presentation of laboratory safety standards, utilization of material safety data sheets, and the theoretical basis for a full range of preparatory and analytical methods and the opportunity to develop expertise in these methods with a variety of laboratory equipment. Students are required to maintain a laboratory notebook, analyze and display data in graphic form, and report results in a standard format. Prerequisite(s): BIO 130 with a grade of C- or higher. Corequisite(s): BIO 212L
Course Offered: Fall, Spring
Credits: Credits:2 (1,2)

BIO 221 Oral Microbiology
This course will focus on the role of microbes as causative agents of disease in human hosts, with a specific focus on the microbiome of the mouth. Topics will include the morphological characterization of pathogenic species, classification of communicable diseases and epidemiology aspects, host-parasite relationship, host-resistance mechanisms, and diagnostic methods in medical practice. The course covers the normal oral flora as well as the bacteria that initiate caries, periodontal, and oral abscesses. The course will discuss antiviral agents as well as antibiotics that treat fungal and bacterial infections. The major bacterial, prion, viral, fungal, and parasitic diseases are covered. Additional topics include sterilization, disinfection methods and contamination control. Note: The laboratory course, BIO 221L is a part of your grade for this course. Prerequisite(s): BIO 166 or BIO 170 or 171 with a grade of C or higher. Corequisite(s): BIO 221L
Course Offered: Fall, Spring
Credits: Credits:4 (3,3)

BIO 240 Bioethics
This course will cover ethical issues raised as a result of modern advances in biotechnology which directly affect the quality of human life. Bioethics comprises every possible aspect of health care: medical, moral, political, religious, legal and financial. It scrutinizes outmoded laws and deals with the enormous growth in available medical services. It takes into account our views of ourselves as members of a humane society. Note: This course is also offered as a writing intensive course at the discretion of the department. Students cannot get credit for BIO 240 and BIO 240W. Prerequisite(s): One course of college biology with a C- or higher; for the writing intensive version, EGL 101 with a grade of C or higher is also required.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BIO 256 Environmental Sampling & Analysis
Proper field techniques for sampling the water, land, and air environments will be emphasized. Laboratory procedures will involve the analysis of both chemical and biological parameters, including wastewater analysis, using New York State approved methodology. Vegetative transecting and beach contouring will also be included. Data presentation and report writing will be emphasized. Field trips and study will be an integral and required part of this course. Discussion of environmental laws and impact statements will be included. Note: The laboratory course, BIO 256L is a part of your grade for this course. Prerequisite(s): One course of college biology with a laboratory and one semester of college chemistry with a laboratory. Corequisite(s): BIO 256L
Credits: Credits:3 (2,3)

BIO 270 Anatomy and Physiology I
BIO 270 is a course in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. This sequence is appropriate for students with a strong foundation in basic biological principles. Anatomy and Physiology I includes: anatomical and directional terminology, histology, and the integumentary, skeletal, muscular, nervous, and endocrine systems. Note: The required course sequence for nursing students is BIO 170 and 171. Students may not receive credit for both BIO 170 and BIO 270. Note: the laboratory course, BIO 270L is a part of your grade for this course. Prerequisite(s): BIO 130 or equivalent with a C- or higher. Corequisite(s): BIO 270L
Course Offered: Fall
Credits: Credits:4 (3,3)

BIO 271 Anatomy and Physiology II
BIO 271 is a course in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. This sequence is appropriate for students with a strong foundation in basic biological principles. Anatomy & Physiology II includes: the cardiovascular, respiratory, digestive, urinary, reproductive, and immune systems, metabolism, and acid-base balance. Note: The required course sequence for nursing students is BIO 170 and 171. Students may not receive credit for both BIO 171 and BIO 271. Note: the laboratory course, BIO 271L is a part of your grade for this course. Prerequisite(s): BIO 270 with a C- or higher. Corequisite(s): BIO 271L
Course Offered: Spring
Credits: Credits:4 (3,3)

BIO 290 Entomology II
Methods of greenhouse pest and disease control, including identification of major families of pests, diagnosis of diseases, principles of cultural and chemical control, and a survey of pests and diseases associated with economically important greenhouse crops. Note: The laboratory course, BIO 290L is a part of your grade for this course. Prerequisite(s): BIO 198 or 192. Corequisite(s): BIO 290L
Course Offered: Summer
Credits: Credits:3 (2,2)

BIO 294 Vertebrate Physiology
This course investigates the principles of physiology in vertebrates with an emphasis on mechanisms of integration and homeostasis at the cellular, organ and system level. It explores the comparative, experimental and evolutionary aspects of all vertebrate classes and surveys the impact of recent advances in cellular and molecular biology on this branch of the biological sciences. Corequisite(s): BIO 295L
Credits: Credits:3 (3,0)

BIO 295L Vertebrate Physiology (Lab)
This laboratory course is an inquiry into the experimental methods and models for understanding vertebrate physiology. It will explore the comparative, experimental and evolutionary aspects of the mechanisms of integration and homeostasis among select vertebrate classes. Laboratory exercises incorporate computer software-based exercises with classic physiology experiments designed to illustrate both the basic concepts of physiology as well as the comparative nature of these events in a number of vertebrate species. Corequisite(s): BIO 294
Credits: Credits:1 (0,3)

BIO 310 Ichthyology
This course is a study of fishes with a focus on fish diversity and evolution, fish form and function, and the importance of fisheries. The origin and diversification of major fish groups will be explored through fish taxonomy and phylogenetics. Comparative anatomy and physiology will highlight adaptations of fishes to historical and contemporary environments. Other aspects of fish biology will include an overview of fish development, behavior, biogeography, and ecology. Local fishes and fisheries of Long Island will be emphasized. Note: The laboratory course, BIO 310L is a part of your grade for this course. Prerequisite(s): BIO 131 with a grade of C- or higher. Corequisite(s): BIO 310L

Course Offered: Fall
Credits: Credits:4 (3,3)

BIO 316 General Microbiology
Based on contemporary applications of microbiology, this course is designed to present both fundamental concepts of microbial physiology and growth, as well as microbial control measures ranging from aseptic procedures to chemical antibiotics. The role of microorganisms in natural ecosystems, research, and human infection will be explored, with emphasis on prokaryotic genetics and metabolism. Mechanisms of evolution will be discussed within the context of emerging pathogens and novel bioengineered organisms. The dynamics between the human microbiome and resistance to infection will be presented along with basic epidemiological models. Note: the laboratory course, BIO 316L is a part of your grade for this course. Prerequisite(s): BIO 210 and BIO 212 with a grade of C- or higher. Corequisite(s): BIO 316L
Credits: Credits:4 (3,3)

BIO 318 Medical Microbiology
This course focuses on the role of microbes as causative agents of disease in human hosts, including the morphological characteristics of pathogenic species, classification of communicable diseases, and epidemiological aspects. The course will emphasize common bacterial, viral, and fungal infections. Both the laboratory and lecture will contain sections on the mode of action of antibiotics, sterilization, disinfection methods and contamination control. The course will elaborate on infectious agents (viral, prions, bacteria, fungi, and parasites) that cause disease. Note: the laboratory course, BIO 318L, is part of your grade for this course. Prerequisite(s): (BIO 130 and 131) or (BIO 171) or (BIO 270 or BIO 271) all with a grade of C- or higher. Corequisite(s): BIO 318L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

BIO 325 Evolution
This is a lecture-based course designed to introduce the study of evolutionary biology and its many components. Topics will range from molecular evolution and phylogenetics to the micro and macro evolutionary trends that have led to the world's biodiversity. The course includes extensive primary literature use, focusing on both recent literature and classic papers within the field. Prerequisite(s): BIO 131 with a grade of C- or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

BIO 330 Principles of Ecology
The course introduces the student to the nature of ecosystems, community organization and dynamics, and population growth and regulation through the understanding and use of modern ecological techniques. The laboratory will be primarily focused on the analysis of field data collected by students. Note: the laboratory course, BIO 330L is a part of your grade for this course. Prerequisite(s): MTH 110, BIO 131 with a C- or higher and Junior Status.
Corequisite: BIO 330L
Course Offered: Spring
Credits: Credits:4 (3,3)

BIO 335 Plant Systematics
An introduction to systematics using vascular plants as the model organisms. Lecture material for this course will cover all aspects of systematics from basic nomenclature, taxonomy and systematic methods through modern molecular systematics and cladistics. Lab material will cover plant morphology and the identification of characteristics across plant lineages and their relationship to systematics. Note: The laboratory course, BIO 335L is a part of your grade for this course. Prerequisite(s) BIO 131 or BIO 192 or BIO 198 with a C- or higher and Junior Status. Corequisite(s): BIO 335L
Course Offered: Fall
Credits: Credits:4 (3,3)

BIO 336 Marine Ecology
This course will introduce students to marine ecology. The course will explore the abiotic environment of the ocean and how it impacts biological life in the oceans. Current methods and tools in marine biology research will be introduced. Ecological and evolutionary perspective will be used to explore various organisms found in major marine systems including marine environments local to Long Island. In this course, students will evaluate modern marine biological issues including anthropogenic impacts such as climate change on the various marine systems. Students will have the opportunity to research primary literature and work collaboratively on a project which will be presented at the end of the course. This is a lecture only course, however, live and preserved organisms may be utilized to support the lectures. Prerequisite(s): BIO 131 or BIO 135 with a grade of C- or higher.
Credits: Credits:3 (3,0)

BIO 340 Biopharmaceutical Regulation
This course introduces the student to Current Good Laboratory Practice (cGCP), Current Good Clinical Practice (cGCP) and Current Good Manufacturing Practice (cGMP) as defined in the Code of federal Regulations Title 21. These regulations apply to all aspects of testing, clinical trials and manufacturing of Biopharmaceutical products under the authority of the Food and Drug Administration. The course will examine the application of these regulations to the bioprocessing, pharmaceutical, nutraceutical, cosmeceutical and allied industries. Prerequisite(s): BIO 210 with grade of a C- or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BIO 343 Principles of Genetics
Students will understand and be able to apply basic principles of genetic analysis. These principles include the Mendelian laws of inheritance, factors that contribute to modification of Mendelian patterns, chromosome organization, genetic variation, the structure of selected eukaryotic and prokaryotic genomes and the analysis of the genetic makeup of populations. Note: Bioscience students taking BIO 343T must also take BIO 344L either during the same semester or after completion of BIO 343T. Prerequisite(s): BIO 130, 131, 210, 212, and MTH 110 all with a grade of C- or higher. Course offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BIO 344L Principles of Genetics Lab
Laboratory exercises include both computer simulations and the use of living organisms to illustrate genetic principles and techniques. Students will collect data utilizing standard genetics investigational techniques. Note: BIO 343 is a prerequisite OR a corequisite for this course. BIO 343 must be taken either prior to or during the same semester as BIO 344L. Prerequisite(s): BIO 130, 131, 210, 212, and MTH 110 all with a grade of C- or higher. Corequisite(s): BIO 343
Course Offered: Fall, Spring, Summer
Credits: Credits:1 (0,3)

BIO 345 Introduction to Bioinformatics
This course is intended to teach the basic tools used in bioinformatics in order to investigate biological questions. Students will conduct independent projects utilizing existing computer programs and databases for gene searches, sequence comparisons, and phylogenetic analysis. Prerequisite(s): BIO 343, BIO 344L, BCS 101 or BCS 102 all with a grade of C- or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BIO 348 Cell Biology
This course investigates how cells develop, work, communicate, and control their activities. Topics include basic biochemistry and metabolism, DNA structure and function, membrane/organelle function and transport, cell communication, the cytoskeleton, and cell division. At the completion of this course the student should be able to engage in the broad themes of cell and molecular biology, and to relate these concepts to other studies in biology and other disciplines. Note: Bioscience and/or MLS students taking BIO 348 must also take BIO 349L either during the same semester or after completion of BIO 348. Prerequisite(s): (BIO 130, 131, 210 and 212) or (BIO 130 and MLS 227) all with a grade of C- or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BIO 349L Cell Biology (Lab)
This course introduces students to the theory and methodology of protocols routinely used in research laboratories investigating cell structure and function. Students have the opportunity to use both common and high tech instruments to perform weekly laboratory exercises. Experimental design, controls and data presentation and analysis are emphasized. Note: BIO 348 is a prerequisite OR a co-requisite for this course. BIO 348 must be taken either prior to or during the same semester as BIO 349L. Prerequisite(s): (BIO 130, 131, 210 and 212) or (BIO 130 and MLS 227) all with a grade of C- or higher. Corequisite(s): BIO 348
Course Offered: Fall, Spring

Credits: Credits:1 (0,3)

BIO 353 Essentials of Plant Pathology
The study of the development of plant diseases caused by Plants, Animals, Fungi, Protists, Bacteria, Viruses and Viroids. Major diseases of economically important plants are emphasized. The disease process and disease cycles for representative pathogens are covered in relation to plant disease control methods. Prerequisite(s): BIO 192 with a grade of C- or higher and Junior Status. Corequisite(s): BIO 354L
Credits: Credits:3 (3,0)

BIO 354L Essentials of Plant Pathology (Lab)
The laboratory is designed to enable the student to acquire skills in collection and examination methods used for the diagnosis of plant diseases produced by biotic and abiotic agents, using microbial isolation and culturing techniques where applicable. The student will learn to recognize and identify (directly or indirectly) biotic plant pathogens among the Plants, Animals, Fungi, Protists, Bacteria, Viruses and Viroids. Prerequisite(s): BIO 192 with a grade of C- or higher and Junior Status. Corequisite(s): BIO 353
Credits: Credits:1 (0,2)

BIO 355 Ecological Topics: The Structure and Function of Nature
This course introduces students to basic ecological concepts as they relate to the biotic and abiotic environment. It stresses the diversity of life and the impact that humans, other organisms and the environment have on each other. Laboratory exercises and field work will investigate the effects organisms have on each other as well as the effects of environmental conditions on growth and development. Students will also characterize the nature of selected site(s) in terms of species diversity using plot sampling techniques. Seminar type discussions require individuals or small groups to explore environmental issues. Topics for these discussions will be submitted to the instructor for appropriateness and approval. Students will be required to research and prepare a paper as well as make a presentation to the class. The class will be given the opportunity to question each speaker following that individual's presentation. Note: the laboratory course, BIO 355L is a part of your grade for this course. Prerequisite(s): BIO 131 or BIO 192 or BIO 198 with a grade of C- or higher and Junior Status. Corequisite(s): BIO 355L
Course Offered: Fall
Credits: Credits:4 (3,3)

BIO 365 Neurobiology
Neurobiology is an upper-level course focused on a detailed study of the structure and function of animal nervous systems. The course will cover the basics of nerve cells and provide an overview of nervous system anatomy and physiology, with an emphasis on cellular and molecular mechanisms of brain function. Special emphasis is given to the anatomy and neurophysiology of reflexes, motor pathways, senses, and neurological diagnosis. Prerequisite(s): BIO 130 with a grade of C- or higher Credit(s): 3
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BIO 375 Invertebrate Zoology
This course is a survey of the major invertebrate groups, starting with sponges and ending with the closest relatives to vertebrates. Invertebrates represent 95% of all animal life, and a thorough understanding of their anatomy, physiology, and evolutionary history has many connections to the study of ecology, systematics, parasitology, and medicine. Lectures will focus on the evolutionary history, physiology, ecology, and human-health impacts these organisms have, while the dissection-based lab will present a comparative anatomical approach of physical structures. Note: The laboratory course, 375L, is part of your grade and a required co-requisite. Prerequisite(s): BIO 131 with a grade of C- or higher. Corequisite(s): BIO 375L
Course Offered: Spring
Credits: Credits:4 (3,3)

BIO 380 Pre-Professional Experience I*AL(ACIN)
Recommended students will engage in one of the following for at least 135 hours: 1) health care volunteer work that involves patient assistance in the health care environment; 2) shadowing of a health care professional (physician, physician assistant, physical therapist, occupational therapist, dentist, veterinarian etc...). The final grade is assigned by the Internship Coordinator based on consultation with the supervisor/health professional and evaluation of reports, logs and a final report prepared by the student. Students must submit a resume to the internship coordinator at least 3 months before registering for the course. Prerequisite(s): Junior Status in Bioscience and (BIO 130 and 131) or BIO 166 or (BIO 170 and BIO 171) or BIO 318 with a grade of C- or higher, recommendation by two Biology faculty members, submission of a resume to the Internship Coordinator at least 3 months prior to registering for the course, approval of the Internship Coordinator; additional courses in Human Anatomy and Physiology and/or Medical Microbiology recommended for some sites.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (0,9)

BIO 381 Pre-Professional Experience II
Recommended for students engaged in one of the following for at least 135 hours: 1) health care volunteer work that involves patient assistance in the health care environment; 2) shadowing of a health care professional (physician, physician assistant, physical therapist, occupational therapist, dentist, veterinarian, etc.) The final grade is assigned by the Internship Coordinator based on consultation with the supervisor/health professional and evaluation of reports, logs, and a final report prepared by the student. Prerequisite(s): BIO 380 with a grade of B or higher.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (0,9)

BIO 410 Developmental Biology
Developmental Biology will focus on the molecular and cellular mechanisms that underlie the growth and development of complex multicellular organisms. This course aims to provide an overview of animal embryonic development with attention given to the genes and proteins involved in controlling the behavior of cells in the processes of differentiation, morphogenesis, and growth. Developmental mechanisms discussed will emphasize genetic and experimental techniques used to understand embryonic growth and differentiation. Prerequisite(s): BIO 348 and BIO 349L with a grade of C- or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

BIO 415 Human Virology
This course will focus on specific human viruses, including papilloma, herpes, smallpox, polio, measles, HIV, influenza, SARS, and hepatitis viruses. Lecture will cover viral strategies of invasion, viral lifecycles, viral offense and host defense, prevention and control of viral diseases, approaches for studying viruses and public health. Prerequisite(s): BIO 348 and 349L with a grade of C- or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

BIO 420 Principles of Immunobiology
Immunobiology is a course in human immunology covering the concepts of innate and adaptive immunity and descriptions and functions of cellular and soluble factors involved in the immune response to eliminate infectious organisms. Concepts include mechanism for regulation of the immune response, how the immune system learns to discriminate between self and non-self, induction and maintenance of immunological tolerance and the development of immunological memory. Prerequisite(s): BIO 348 and BIO 349L with a grade of C- or higher.
Credits: Credits:3 (3,0)

BIO 435 Cancer Biology
This course is designed for students to develop an understanding of the biology of cancer with an emphasis on molecular and cellular events that promote the transformation of normal cells into malignant cancer cells. There will be a general introduction of cancer from a historical perspective that will include the underlying causes of cancer. Students will emerge from this course with a firm understanding of how the disruption of molecular pathways may result in altered cellular signaling and the promotion of tumorigenesis, angiogenesis and metastasis. Current approaches to cancer treatment and recent advances in therapies that exploit these mechanisms will also be discussed. This course will involve the understanding and evaluation of primary literature so that students may formulate scientific questions and critically evaluate information relevant to cancer biology. Prerequisite(s): BIO 348 with a grade of C- or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

BIO 441 Introduction to Molecular Biology
This course provides a detailed explanation of topics in molecular biology including DNA replication, DNA repair and recombination, transcriptional regulation and RNA processing. The course also covers techniques common

in molecular biology laboratories, such as PCR, cloning, sequencing, nucleic acid separation and visualization. In addition, the course will discuss model organisms and approaches to study gene function, such as CRISPR/Cas and RNAi. Topics will be presented from both the view of prokaryotes as well as eukaryotes. The lab component of the class will teach molecular biology techniques that will enable students to use RNAi to knock-down gene expression in C. elegans. Scientific journal articles highlighting class topics will be used to supplement class lectures. Note: the laboratory course, BIO 441L is a part of your grade for this course. Prerequisite(s): BIO 348 and BIO 349L with a grade of C- or higher. Corequisite(s): BIO 441L
Course Offered: Fall, Spring
Credits: Credits:5 (3,4)

BIO 444 Forensic Molecular Biology
This course explores advanced molecular biological techniques and concepts as they apply to the study of forensic investigation. The course will cover background information on body fluid identification, DNA structure and function, analytical DNA techniques, and review advancements in the field of DNA typing. The primary focus will be the molecular biological technique known as short tandem repeats (STR) testing. Other topics covered include case studies, sample handling, DNA databanking (CODIS), mass disaster identification, Y chromosomal analysis, paternity testing, and validation procedures. The laboratory component of this course will give the students hands-on experience in techniques and experiments that are currently being employed by forensic biology laboratories across the country. Note: Students who have completed BIO 430 or CRJ 430 may not receive credit for this course. Note: the laboratory course, BIO 444L is a part of your grade for this course. Prerequisite(s): BIO 348, 349L and CRJ 201 all with a grade of C- or higher. Corequisite(s): BIO 444L
Credits: Credits:4 (3,3)

BIO 451 Human Evolutionary Anatomy
This course will serve as an advanced elective for students looking to delve deeper into the skeletal anatomy of the human body and why it looks the way it does today. An evolutionary approach will be taken to studying aspects of human anatomy that are generally considered unique amongst primates, such as an enlarged brain, a reduced masticatory apparatus, and upright bipedal posture. These traits will be put into context with comparisons to the great apes and representatives from the human fossil record. Biomechanical and developmental aspects of skeletal anatomy will also be explored. Students are expected to enter this class with a working knowledge of the bones of the human body and the general terminology used to describe them. They will also be expected to read and discuss the scientific literature surrounding debates in human evolution that will be covered in lecture. Note: There is not a separate lab component of this course but students will get hands-on experience with models of the bones and casts of fossil specimens. Prerequisite(s): BIO 170 or BIO 270 or ANT 330 all with a grade of C- or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

BIO 455 Validation and Regulatory Affairs
An introduction is provided to governmental oversight of drugs, devices and biotherapeutics, and the laws and regulations that apply to development, testing and validation of methods and equipment. There is a survey of the history of US food and drug law, the creation of the FDA, and the current organization and responsibilities of the FDA. Specific US laws and regulations applicable to drugs, devices and biologics and international regulations and import/export concerns are examined. Prerequisite(s): BIO 343 or BIO 348 with a grade of C- or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BIO 460 Topics in Biology
A study of current discoveries and applications of biology, with emphasis on student participation and written assignments. Critical thinking will be developed concerning the validity of popular reports and extraordinary claims. Ongoing discoveries in biology will be analyzed according to their contributions to the advancement of knowledge, their possible commercial, medical, or agricultural applications, and ethical issues that may arise. Resources that will be utilized include current scientific literature, guest lectures, and the internet. Prerequisite(s): BIO 343, 344L, 348 and 349L with a grade of C- or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BIO 470 Bioscience Senior Seminar
The capstone course in the Bioscience Program, this course utilizes guest speakers and student literature searches to explore the state of the entire field of Bioscience. Each student is required to write a paper on an approved topic in the field of Bioscience based on primary sources in the scientific literature, and to present a seminar at which the student will defend his or her correlations and conclusions about the topic. Note: this course is also offered as a writing intensive course at the discretion of the department. Students cannot get credit for BIO 470 and BIO 470W. Prerequisite(s): BIO 343, 344L, 348 and 349L with a grade of C- or higher; for the writing intensive version, EGL 101 with a grade of C or higher is also required. Corequisite(s): BIO 441
Credits: Credits:3 (3,0)

BIO 476L Bioscience Internship A1
Bioscience Internships A1 and A2 (BIO476L and BIO477L) are appropriate for students seeking a preliminary internship experience (45 hours earning 1 credit). Mentored projects may entail literature-based research on a proposed project to learn background information, experimental design, protocol planning and/or an introduction to advanced laboratory technology or field work. Note: Students seeking credit for health care professional shadowing or volunteer work involving patient assistance in a health care environment should register for BIO 380 and/or BIO 381. Prerequisite(s): Biology faculty permission, recommendation or invitation. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:1 (0,0,3)

BIO 477L Bioscience Internship A2
Bioscience Internships A1 and A2 (BIO476L and BIO477L) are appropriate for students seeking a preliminary internship experience (45 hours earning 1 credit). Mentored projects may entail literature-based research on a proposed project to learn background information, experimental design, protocol planning and/or an introduction to advanced laboratory technology or fieldwork. Prerequisite(s): BIO 476L and Biology faculty permission, recommendation or invitation. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:1 (0,0,3)

BIO 478L Bioscience Internship B1
Bioscience Internships B1 and B2 (BIO 478L and 479L) are appropriate for students seeking an internship requiring a commitment of 90 hours/semester (2 credits). Mentored projects may entail literature-based research, reagent/sample preparation, learning advanced laboratory or fieldwork techniques, performing experiments, data acquisition and interpretation and maintaining a laboratory notebook. Note: Students seeking credit for health care professional shadowing or volunteer work involving patient assistance in a health care environment should register for BIO 380 and/or BIO 381. Prerequisite(s): (BIO 343 and BIO 344L) or (BIO 348 and 349L) with a C- or higher and Biology faculty permission or invitation. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (0,0,6)

BIO 479L Bioscience Internship B2
Bioscience Internships B1 and B2 (BIO 478L and 479L) are appropriate for students seeking an internship requiring a commitment of 90 hours/semester (2 credits). Mentored projects may entail literature-based research, reagent/sample preparation, learning advanced laboratory or fieldwork techniques, performing experiments, data acquisition and interpretation and maintaining a laboratory notebook. Prerequisite(s): BIO 478L and Biology faculty permission, recommendation or invitation. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (0,0,6)

BIO 480L Bioscience Internship I
Bioscience Internship I is the first in a series of four potential internships (BIO 480L, 481L, 482L, and 483L) representing substantial projects or work experience requiring a commitment of 135 hours/semester (3 credits). Mentor directed research projects may entail literature searches and any or all laboratory, or fieldwork activities needed for the acquisition and interpretation of experimental data, as well as documentation of these activities in a laboratory notebook. Note: Students seeking credit for health

care professional shadowing or volunteer work involving patient assistance in a health care environment should register for BIO 380 and/or BIO 381. Prerequisite(s): Biology faculty permission, recommendation or invitation. BIO 343/344L or BIO348/349L with a C- or better. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (0,0,9)

BIO 481L Bioscience Internship II
Bioscience Internship II is the second in a series of four potential internships (BIO 480L, 481L, 482L, and 483L) representing substantial projects or work experience requiring a commitment of 135 hours/semester (3 credits). Mentor directed research projects may entail literature searches and any or all laboratory, or fieldwork activities needed for the acquisition and interpretation of experimental data, as well as documentation of these activities in a laboratory notebook. Prerequisite(s): Biology faculty permission, recommendation or invitation and BIO 480L. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (0,0,9)

BIO 482L Bioscience Internship III
Bioscience Internship III is the third in a series of four potential internships (BIO 480L, 481L, 482L, and 483L) representing substantial projects or work experience requiring a commitment of 135 hours/semester (3 credits). Mentor directed research projects may entail literature searches and any or all laboratory, or fieldwork activities needed for the acquisition and interpretation of experimental data, as well as documentation of these activities in a laboratory notebook. Prerequisite(s): Biology faculty permission, recommendation or invitation and BIO 481L. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (0,0,9)

BIO 483L Bioscience Internship IV
Bioscience Internship IV is the fourth in a series of four potential internships (BIO 480L, 481L, 482L, and 483L) representing substantial projects or work experience requiring a commitment of 135 hours/semester (3 credit). Mentor directed research projects may entail literature searches and any or all laboratory, or fieldwork activities needed for the acquisition and interpretation of experimental data, as well as documentation of these activities in a laboratory notebook. Prerequisite(s): Biology faculty permission, recommendation or invitation and BIO 482L. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (0,0,9)

BIO 484L Bioscience Internship V
Bioscience Internship V is the first in a series of three potential internships (BIO 484L, 485L, and 486L) representing longer-term projects or work experience requiring a commitment of 180 hours/semester (4 credits). Mentor directed research projects may entail literature searches and any or all laboratory, or fieldwork activities needed for the acquisition and interpretation of experimental data, as well as documentation of these activities in a laboratory notebook. Note: Students seeking credit for health care professional shadowing or volunteer work involving patient assistance in a health care environment should register for BIO 380 and/or BIO 381. Prerequisite(s): Biology faculty permission, recommendation or invitation. BIO 343/344L and/or BIO348/349L with a C- or better. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (0,0,12)

BIO 485L Bioscience Internship VI
Bioscience Internship VI is the second in a series of three potential internships (BIO 484L, 485L, and 486L) representing longer-term projects or work experience requiring a commitment of 180 hours/semester (4 credits). Mentor directed research projects may entail literature searches and any or all laboratory, or fieldwork activities needed for the acquisition and interpretation of experimental data, as well as documentation of these activities in a laboratory notebook. Prerequisite(s): BIO 484L and Biology faculty permission, recommendation or invitation. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (0,0,12)

BIO 486L Bioscience Internship VII
Bioscience Internship VII is the third in a series of three potential internships (BIO 484L, 485L, and 486L) representing longer-term projects or work experience requiring a commitment of 180 hours/semester (4 credits). Mentor directed research projects may entail literature searches and any or all laboratory, or fieldwork activities needed for the acquisition and interpretation of experimental data, as well as documentation of these activities in a laboratory notebook. Prerequisite(s): BIO 485L and Biology faculty permission, recommendation or invitation. Off-campus internships also require approval of the Biology Internship Coordinator.
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (0,0,12)

BIO 490 Senior Research Project
An intensive bioscience research experience for selected student in a research laboratory under the supervision of faculty engaged in current investigations in the field of bioscience. The student will be expected to commit himself / herself to a full weekly schedule of laboratory research activity and tutorials for a semester or summer to gain professional expertise in laboratory procedures, record keeping, operation of laboratory equipment, experimental design, and preparation of data for scientific publication presentation and oral presentation. Technical Elective for Bioscience majors. Prerequisite(s): Senior status and recommendation of faculty.
Credits: Credits:8 (4,0,12)

BUSINESS (BUS)

BUS 101 Financial Accounting
Students will study the underlying framework of financial accounting systems and apply these concepts in preparing, interpreting and analyzing accounting information in the contemporary corporate business environment. Students will record business transactions, and prepare and analyze financial statements for service and merchandising companies. Students will demonstrate an understanding of accounting systems and controls, financial assets, plant assets, current and long-term liabilities, and equity.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 102 Managerial Accounting
Students will examine managerial accounting concepts and theories which assist managers in planning, directing, and controlling activities in service, merchandising, and manufacturing entities. Students will apply product costing methods (e.g., job-order costing and process costing), calculate and interpret variances, apply cost-volume-profit strategies to short-term decision making, and prepare operating budgets and performance evaluation reports. Prerequisite(s): BUS 101 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 109 Management Theories and Practices
This introductory course covers management principles pertaining to human resources, individual behavior in organizations, employee motivation and performance, and business ethics. Topics also include managing and the manager's job; planning and decision making; employee performance appraisal and feedback; leadership and influence processes; interpersonal relations and communication; and managing work groups and teams.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 111 Introduction to Business
This course introduces the student to the fundamentals of American Business and its contemporary environment. It provides an overview of organizational, national, and international trends and their impact on enterprises both large and small. The course develops an understanding of important business concepts, principles, and practices that explain how businesses are formed, how they operate to accomplish their goals, and why/how their success depends on effective management, production, marketing and finance/accounting.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 112 Legal Environment in the Cannabis Industry
This course provides an introduction to the legal and regulatory environment of business in the cannabis industry. This course will explore

the origins of the cannabis industry beginning with the first state to legalize medical marijuana as well as the proliferation of state law in the area of recreational marijuana. Students will explore the doctrine of federal pre-emption and evaluate ethical issues facing businesses in the cannabis industry. Students will be able .to observe and examine the impact of the current legal environment in the cannabis industry on other areas of law such as contract law, bankruptcy law, and securities law.
Credits: Credits:3 (3,0)

BUS 121 Business Mathematics
The fundamentals of applied mathematics in the field of accounting, finance, marketing, and selling. Topics include interest, bank discount, insurance, and annuities. The use of arithmetic as a managerial tool is stressed.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 123 Introduction to Hospitality
This course offers a broad introductory overview of the world of commercial hospitality, including lodging, food and beverage, travel and tourism, events, facilities, and other subset areas of hospitality management. Students will develop a foundational knowledge of the hospitality industry's shape and structure. Students will describe foundational pillars of service management and customer relationship management. Students will also develop an understanding of the various roles of managers in the hospitality industry, and will identify concepts, tools, and skills relevant to hospitality management decision-making. Students will also survey the broad variety of careers in hospitality within the context of a changing industry within a complex environment.
Credits: Credits:3 (3,0)

BUS 131 Marketing Principles
This course provides the student with a sound knowledge of the basic elements of the marketing process. Major topics include the features of consumer and organizational markets, market segmentation, and target market strategies. Product planning and development, brands, packaging and other product features are covered. Price determination and the use of various pricing strategies are discussed. The factors in the selection of channels of distribution and the features of wholesaling and retailing are considered. Elements of the promotional process such as sales, advertising, and sales promotion are included. Ethical and legal issues in marketing, marketing of services, global marketing, and marketing on the Internet are also covered.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 134 Cannabis Management and Marketing
This course provides the students who want to work in an existing cannabis business, or who want to start their own businesses with a sound knowledge of the basic elements of the management and marketing processes for different types of cannabis businesses. Major topics include the features of the overview and history of the cannabis market, analyzing the immediate and macro environments of cannabis businesses, various structures and designs of cannabis businesses, management processes, organizational cultures, innovation, and change, leadership, motivation, and communication in management businesses, ethics and social responsibility of cannabis businesses, product and branding in cannabis businesses, distribution, pricing, and promotion of cannabis products, behaviors of cannabis consumers, segmentation, targeting, and positioning of cannabis markets, sales and customer service in cannabis businesses, and business planning techniques and creating a business plan.
Credits: Credits:3 (3,0)

BUS 141 Contemporary Business Communications
An introduction to the role and importance of effective communications in business. Key topics include the familiarization and practice in preparing common types of internal and external business communications; contemporary issues in business communication relating to technology, ethics, and nondiscriminatory language; memo and report writing with proper mechanics, style, and appropriate tone/attitude; and business presentations. Prerequisite(s): EGL 101 and BCS 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 188 Advertising Art and Applications
This course will combine basic advertising principles with practical media application. This course shall introduce students to the business of advertising in a contemporary global environment. The course will explore concepts of advertising, including elements of media selection and copywriting within the parameters of internal budgets, management and the application of actual advertising creation. In addition, students will create advertising, integrating the roles of the creative director and marketing manager. Note: Students completing this course may not receive credit for VIS 188.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 202 Business Law I
An introduction to the nature and sources of law; the role the legal system; the law of torts and crimes; the law of contracts; and real and personal property.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 209 Teamwork and Team Building
The following topics will be discussed and analyzed: teams in organizations, understanding team building and development, working in groups and teams, team roles and processes, being a team leader, and handling team conflict. The culmination of these concepts and functions, referred to as "team forming, storming, norming, and performing," will also be covered. Case studies will be used extensively. Prerequisite(s): BUS 109
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 220 Financial Information Systems
This course will further the understanding of accounting theory and will provide the opportunity to achieve competency in the use of computerized applications. The course will introduce students to internal control theory within a computerized financial information system. Use of the Web for accessing relevant information will also be introduced. Prerequisite(s): BUS 101 Corequisite(s): BUS 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 222 Accounting and Finance for Cannabis Managers
This course will cover the following topics: regulations -of GAAP on cannabis companies; SEC and FASB; State system; taxation laws 280E; 471 and COGS; systems design and chart of accounts; tracking records and inventory; costs and deductions; accrual versus cash basis systems; assets; liabilities and equity; journals and ledgers; payroll accounting; financial reporting and financial statements; forming a cannabis company; filing form 8300; licenses. By the end of this course, students should be able to define financial statements for cannabis companies, recognize how to make decisions at managerial level in a growing industry, differentiate the COGS and other costs, define deductions, prepare tax return for their business.
Credits: Credits:3 (3,0)

BUS 223 Event Management for Hospitality & Tourism
This course builds on the knowledge of Introduction to Hospitality with a focus on Event Management for Hospitality and Tourism. Events are service products and an important component of the tourism and hospitality industries. Students in this course will develop knowledge, skills, and competencies related to the management of events, including strategic planning, budgeting, contracting, promotion, pricing, design, and operations. Students will also engage with emergent issues such as risk management, sustainability, technology management, and community relations. Students will develop a complete event plan in which they will describe event goals and objectives, do an event SWOT analysis, assess visitor interest and conduct research, create a budget and make pricing decisions, develop plans for venues, activities, food and beverage, and other amenities, create the event agenda and schedule, develop a marketing and media plan, and discuss methods of assessing event success. Prerequisite(s): BUS 123 with a grade of C or higher.
Credits: Credits:3 (3,0)

BUS 227 Grassroots Entrepreneurship within Minority Communities
This course focuses on equipping students with the essential knowledge and experience related to successful engagement in entrepreneurial initiatives within minority communities. Students will engage in actual mini-venture start-up projects focused on identifying, creating, and engaging in entrepreneurial opportunities. Conceptual, case-based discussions and critical inquiries will focus on entrepreneurial opportunities and challenges within minority communities. Students will identify, create, and evaluate

entrepreneurial ideas and opportunities within minority cultural settings. Students will also develop approaches for assessing market potential and the acquisition of financing.
Credits: Credits:3 (3,0)

BUS 229 Social Entrepreneurship
The growth of business driven by social purpose represents a large-scale trend in modern society that has rapidly expanded in recent decades, as communities worldwide seek innovative approaches to social and economic challenges not adequately addressed by the state or the conventional marketplace. Students in this course will build core knowledge of social entrepreneurship and will construct a toolkit to use as innovators and entrepreneurs for addressing complex issues, promoting social development, and positively changing the world through community-driven market forces. Students will analyze models and case studies for social problem-solving through sustainable and exploitable business ideas, with a focus on identifying, developing, and implementing feasible and creative innovations to advance social and community objectives.
Credits: Credits:3 (3,0)

BUS 230 Environmental Law
This elective course addresses concerns pertaining to the business environment, instructing students as to the unified ecological approach to which affect management. The political approach to business environmental concerns in the context of constitutional, common law and administrative law theories and case and statutory analysis are examined, referencing basic natural science technology. Designed as a first law course it introduces the business, horticulture and industrial technology student to the legal process applying relevant components of environmental law studies. A nationally adopted text of a major law publisher and contemporary business periodical articles on assigned topics are to be used extensively.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 232 Electronic Commerce
This cross-listed business management and business computer systems course covers electronic commerce (EC) foundations, retailing methodologies, and marketing research. Focus will be on the various forms, strategies, and implementations of EC including business-to-business (B2B), business-to-consumer (B2C) and consumer-to-consumer (C2C). Also covered will be social networking, electronic payment systems, and public policy issues including privacy and intellectual property matters as well as recent information technology advancements. Students completing BUS 232 may not receive credit for BCS 232. Prerequisite(s): BUS 109 or Management course and BCS 101 or BCS 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 240 Business Statistics
This course provides an understanding of statistical concepts and tools that are critical in business decision-making. The discussion and development of each topic is presented in an application setting, with the statistical results providing insights and solutions to real world problems. Students will be able to calculate and perform various analyses, including but not limited to: Interval Estimation, Hypothesis Testing, Test of Goodness of Fit, and Independence and Regression Analysis. The coursework requires extensive use of commercially available statistical software. Prerequisites: MTH 117 or MTH 129
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 250 Consumer Behavior
This course recognizes the central role of consumers in determining the fate of a firm's marketing efforts. Topics covered include the understanding of consumer motivation, perception, and learning, as well as the recognition of social influences on consumer behavior such as reference groups, opinion leadership, culture, and subcultures. Emphasis will be on the consumer's decision making process so that students can make more informed choices in the marketplace. Topics also include the methods marketers use to influence consumer behavior and corresponding ethical and legal issues. Prerequisite(s): BUS 131 or Department approval.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 251 Retailing
This course helps students develop an understanding of the relationship of retailing to the marketing process and describes the fundamentals of modern retailing. A study is made of modern retail institutions.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 253 Industrial Marketing
This course focuses on the marketing of industrial goods and services to industrial markets. Industrial product planning, channels of distribution, promotional activities and pricing strategies are emphasized. Other topics such as understanding industrial buying and evaluating potential markets are also covered. Prerequisite(s): BUS 131
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 254 Principles of Selling
This course emphasizes the creative selling techniques used by professional salespeople. It covers all the important elements of the personal selling process with special emphasis placed on determining prospects' needs, translating features into benefits, overcoming objections and closing methods. Participants will demonstrate their ability to apply the techniques discussed by delivering sales presentations. Prerequisite(s) BUS 131 or Department approval.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 257 Advertising Principles
This course uses practical concepts to examine the role of advertising in the marketing process. Topics covered include: ethical issues involved in advertising, various types of advertising used by marketers, services performed by ad agencies, the creative side of advertising including basic elements of copywriting and design, how to prepare an ad budget, and the elements of media selection. Also covered are the various types of advertising media including magazines, newspapers, outdoor, transit, yellow pages, and direct mail as well as the features of advertising on television, radio and the Internet. Prerequisite(s): BUS 131 or Department approval
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 258 Production Management
Presents a survey which informs the student about the development of modern industry and scientific management and will enable them to grasp the operating principles.
Credits: Credits:3 (3,0)

BUS 259 Public Relations
Principles and practices of building good public relations between industry and employees, stockholders, consumers, suppliers and the press. The development of public relations as a top-management function.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 266 Personnel and Human Resources Management
This course develops an understanding of the important functions and tasks performed by the modern human resource department such as staffing, training, employee safety and compensation. Emphasis throughout will be on the partnership to ensure a motivated work force. Prerequisite(s): BUS 109 or Department approval
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 267 Small Business Management
This course helps students develop an understanding of the relationship of small business management to the management process. It describes the fundamentals of small business management. A study is made of major problems and pitfalls faced by managers of small businesses.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 271 Intermediate Accounting I
An in-depth study of the principles related to financial accounting topics and a study of recent developments in financial accounting required by the Financial Accounting Standards Board. Topics include the following: development of accounting standards; nature of the conceptual framework, assumptions and principles; review of the accounting process; continued study of the Income Statement, Balance Sheet and Statement of Cash

Flows; time value of money; cash and receivables, inventories; acquisition and disposal of property, plant and equipment; depreciation and depletion; intangible assets; long-term investment in Equity Securities and other assets. Prerequisite(s): BUS 101 and 102
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 272 Intermediate Accounting II
A continuation of the study of the principles related to financial accounting. This study will include a presentation of the following topics: stockholders' equity; dilutive securities; revenue recognition; accounting for income taxes; accounting for pensions and for leases; accounting changes and error analysis, full disclosure in financial reporting; financial reporting and changing prices; liabilities-current and contingent; liabilities-long term. Prerequisite(s): BUS 271
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 273 Cost Accounting
Principles of cost accounting applied to manufacturing industries. The use of cost data and procedures under job order, process cost, and standard cost accounting systems as a tool of management. Prerequisite(s): BUS 101 and 102
Course Offered: Summer
Credits: Credits:3 (3,0)

BUS 278 Business Project
This is an independent study course designed to offer a student experience in research and performing special projects in business and/or related area of interest. A faculty member shall act as a Project Advisor. The project selected will utilize skills and knowledge acquired in previous business administration and related courses. The number of credits received will be determined by the complexity of the project and agreed upon prior to the student's starting the course.
Course Offered: Fall, Spring, Summer
Credits: Credits:1 or 1 (1 or 1,0)

BUS 280 International Business
This course examines the international integration of socio-cultural, political, and economic aspects of business. It explores the impact of globalization on countries, organizations, and individuals. The course will also discuss key issues in ethics, corporate social responsibility, and technology in the global context. Students will develop a broad understanding of the global marketplace and learn how the global environment affects business functions and performance.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 290 Foundations of Sustainable Business
This course lays a foundation for sustainable business and will examine how sustainability intersects with the contemporary business environment. Students will learn how unsustainable business practices impact the environment, society, and the economy and will analyze and evaluate sustainable business strategies and practices that address the triple bottom line. The course will also address the broader issues of ethics and corporate social responsibility across different business and industry sectors. Prerequisite(s): BUS 109
Credits: Credits:3 (3,0)

BUS 291 Investments
To familiarize students with financial literature and facilities that are available as guides to the proper selection of securities and other types of investments. The course is covered from the perspective of the individual investor. As such, a logical portfolio commensurate with the financial goals of the individual is stressed. Financial information available both in published as well as Internet access format are covered.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 300 Operations Management
This course undertakes an examination of the role of operations within manufacturing and service organizations. Emphasis is placed upon recognizing operational opportunities and tradeoffs, and employing quantitative and qualitative tools and decision support systems to assist strategic and operational decision-making. The general functions of operations management as applied to the transformation process are covered. Some of the important topics include but not limited to Forecasting, Statistical Quality Control, Inventory Management, Linear Programming, and Transportation Models. Note: Students who have previously completed IND 301 cannot receive credit for BUS 300. Prerequisite(s): BUS 240 or MTH 110
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 304 Business Law II
An introduction to the law of sales and lease contracts, letters of credit, commercial paper and secured transactions under the UCC and creditor's rights and remedies, including surety ship and guaranty, insurance, wills, trusts, elder law and consumer protection. Prerequisite(s): BUS 202 or Department approval
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 305 Entrepreneurship
This course covers the process of creating and growing a new business venture through the introduction and development of a business idea. Also covered are the nature and importance of entrepreneurs, international entrepreneurship opportunities, and the development of business and marketing plans. Methods for financing the new venture through the use of case studies and practical applications will be discussed and covered in assignments. Prerequisite(s): BUS 109 or Department approval.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 306 Project and Contract Management
This course covers the processes encountered in choosing, planning, controlling, and negotiating of projects and contracts in technologically based firms. Topics include project and contract; feasibility; risk analysis; selection; portfolio optimization; cost estimation and controls; capital budgeting; performance relating to negotiation, adjustments, and benchmark standards; and awareness and appreciation for ethical practices. Note: Students completing this course may not receive credit for IND 306. Prerequisite(s): BUS 109
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 307 Corporate Finance
The overall aim of this course is to help students develop an understanding and appreciation of Finance as a business discipline - an analytical approach in assessing the financial worthiness of a business entity is stressed. Topics covered include time value of money; financial statement analysis; valuation models; risks and rates of return; calculating beta coefficients; working capital management; capital budgeting; the cost of capital leverage and dividend policy; and financial forecasting. Note: Students cannot receive credit for BUS 201 and BUS 307. Prerequisite(s): BUS 101 and 102 and Junior level status
Credits: Credits:3 (3,0)

BUS 308 Quantitative Techniques in Finance
This course connects key mathematical concepts to the quantitative aspects of finance. Students will gain a deeper understanding of financial math. Students will analyze cash flows to arrive at fair asset prices, calculate advanced calculus equations to understand how businesses use optimization to make financial decisions, and analyze matrices for optimal portfolio selection. Topics include time value of money, annuities "and cash flows, bonds, portfolios optimization, derivatives, options, and hedging and investment strategies. Prerequisite(s): BUS 307
Credits: Credits:3 (3,0)

BUS 310 Principles of Taxation
This course covers fundamental principles of income taxation under the Internal Revenue Code, related Regulations and court cases. Tax treatment of the individual is stressed, with emphasis on filing status, income and business deductions, and realization and recognition of capital gains and losses. Corporate and partnership taxation are introduced. Students are taught to recognize tax issues and gain the skills necessary to solve those issues. Prerequisite(s): BUS 102 or permission of department chair
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 311 Organizational Behavior
This upper-division course presents the concepts of organizational behavior and structure as well as topics relating to motivation content and process theories; group communication and dynamics; decision making; causes and

resolutions of organizational conflicts; and factors pertaining to influence, power, and politics in organizations. Note: Students completing this course may not receive credit for PSY 311. Prerequisite(s): BUS 109, or PSY 101 or permission of department chair.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 312 Purchasing and Supply Chain Management
This course covers the purchasing and movement of materials into, through, and out of a firm; fundamentals of domestic and international transportation systems; distribution center, warehouse, and plant location; and management of multinational organizations and supply networks. Note: Students who previously took IND 311 cannot receive credit for this course. Prerequisite(s): BUS 109
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 314 Supply Chain Analytics
This course covers the three key aspects of analytics (descriptive, predictive and prescriptive) in supply chain management. Descriptive analytics are focused on key performance indicators that describe the current status of the business. Predictive analytics include forecasting and aggregated planning. Finally, prescriptive analytics focus on optimization models and simulation. Prerequisite(s): BUS 240 with a C or higher
Credits: Credits:3 (3,0)

BUS 315 Sustainable Supply Chain Management
In this course students will examine different aspects of supply chains from the viewpoint of sustainable management. Topics covered include society's expectations of business in terms of health, human rights, and the environment, legislation that impacts sustainability, value chain analysis, and risk mitigation and innovation in the entire supply chain including suppliers, manufacturers, logistics service providers and consumers. Students will also learn about the links between the different actors in the supply chain and their social, environmental and economic impact. Prerequisite(s): BUS 300 with a grade of C or higher
Credits: Credits:3 (3,0)

BUS 316 Customer Relations and Quality
This course covers the basics of customer relations and quality in industry. The course includes discussion of quality management principles and standards as well as feedback techniques to measure and assure customer satisfaction. The American Customer Satisfaction Index, J.D. Power and Associates Reports, Malcolm Baldrige National Quality Award, and International Organization for Standardization (ISO) Automotive Quality System QS-9000 registration criteria will also be discussed. Note: Students completing this course cannot receive credit IND 316. Prerequisite(s): BUS 300 or IND 301
Credits: Credits:3 (3,0)

BUS 317 Enterprise Resource Planning
Enterprise Resource Planning (ERP) is an organizational and information systems approach that integrates planning, customer relationship management, decision making, master scheduling, material requirements planning, marketing, forecasting, sales, finance, electronic commerce, and human resources. The course will include lectures and extensive use of supporting ERP software. Note: Students cannot receive credit for both BCS 317 and BUS 317. Prerequisite(s): BUS 109 or BUS 300 or BCS 300.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 319 Marketing Research
This course provides students with the tools necessary to understand and carry out market research. Marketing research involves a number of steps from deciding on the research objective, data gathering and analysis, and the interpretation of results. The course is an introduction to a range of tools including the use of focus groups, the collection of secondary data, survey and questionnaire design, hypothesis testing and regression analysis, conjoint analysis, factor analysis, cluster analysis perceptual mapping, and social media analytics. Prerequisite(s): BUS 240 and BUS 131
Credits: Credits:3 (3,0)

BUS 320 International Marketing
As the interconnectedness of the global economy grows, marketing managers are faced with an imperative to understand and face the challenges posed by the international marketplace, including the challenge of selling goods and services in markets abroad. This course focuses on marketing management within international settings and will cover topics and issues such as international market selection, adaptation of products, international promotion and pricing strategies, and differences in distribution channels, all within the context of national differences in culture, consumer behavior, levels of development, and political, legal, and economic systems. Prerequisite(s): BUS 131 and BUS 280
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 321 International Law
This course provides study in the basic concepts and processes of the international legal system. The interaction of state, federal, and international law as well as the relationship of international law and the American legal system are explained. Particular attention is given to current problems faced by managers and to the dominant political, social economic, and technological forces influencing the evolution of international law. Prerequisite(s): BUS 202
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 322 International Management
This course will examine the critical issues and practices of international management. Emphasis will be placed on the multicultural workforce and worldwide developments. Topics will include planning, political risk, organizing, decision-making, and controlling as pertaining to international management and operations. Students will study human resource/ personnel issues concerning selection and repatriation, communication skills, and labor relations in a global context. Ethics and social responsibility as well as future trends of international management will be explored. The course will include student assignments and case studies examining the issues affecting small businesses expanding operations into foreign markets. Prerequisite(s): BUS 109, BUS 280
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 323 Theme Parks and Attraction Management
Theme parks and visitor attractions present unique challenges for managers. Students will compare and contrast development, design, and capital expenditure plans for attraction projects, evaluate park operations and HR policies and procedures, critically evaluate the complex landscape of temporal attendance pricing, survey food and beverage innovation and strategy, review safety incidents and assess industry and government safety policy, explain the structure of relationships between suppliers, attractions, and guests, and examine issues of ethical challenge such as animal captivity and display, diversity and inclusion in design and operations, and the equity ramifications of velvet rope disparities. Students will also integrate sustainability and climate impacts into operational analyses. Finally, students will construct theme park, hospitality, and tourism project plans. Note: Students can not get credit for BUS 323 if they have already received credit for the special topics course BUS 391 Theme Parks and Tourism. Prerequisite(s): Any 200-level BUS course with a grade of C or higher.
Credits: Credits:3 (3,0)

BUS 327 Risk Management and Insurance
This course is designed to assist the student in the identification and analysis of the major types of financial risk management and insurance. The course will analyze the needs and problems faced by individuals and corporations regarding risk management exposure and how these exposures to risk are addressed through various forms of insurance. Case studies involving risk management, insurance, and relevant ethical factors will be covered. Prerequisite(s): BUS 307 or department approval
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 330 Cost Management Systems
This upper-level course pertains to the key elements of cost management systems of manufacturing and service organizations. Topics covered include: using cost drivers and activity based costing; eliminating non-value added activities; costing product (service) life cycles; and justifying capital expenditures for computer integrated manufacturing systems. Prerequisite(s): Two semesters of accounting.
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 340 Advanced Business Statistics
This course covers advanced statistical concepts and techniques as applied to decision making and business applications. Topics include: estimating

population values, hypothesis testing for one and two populations, analysis of variance, linear regression and correlation analysis, multiple regression analysis and model building, statistical process control, analyzing and forecasting time-series data, and decision-making analysis. Prerequisite(s): BUS 240, statistics course or Department approval.
Course Offered: Summer
Credits: Credits:3 (3,0)

BUS 345 Foundations of Business Analytics
This course introduces the primary business analytics concepts and tools. The course presents an overview of basic statistics, data mining, data visualization, optimization, and decision analysis. The course incorporates the use of Excel spreadsheet modeling capabilities in order to prepare students to model and solve real world problems. Prerequisite(s): BUS 240 or MTH 110 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 346 Social Media Analytics
This course provides a general introduction to students about the use of social media analytics in business. Students will develop skills in collecting data from major social media platforms and analyzing data for business value creation using appropriate tools including Python and R. Topics include value creation of social media analytics, alignment of social media analytics with business strategy, data collection and analysis, and social media analytics platforms. Students will practice social media data collection and develop analytical skills. Prerequisite(s): MTH 110 or BUS 240 both with a grade of C or higher.
Credits: Credits:3 (3,0)

BUS 350 American Business History
The course focuses on major developments in American business history, covering the period from the early colonial period through the present time. Students will describe and summarize significant historical developments to American industry and business practice, and will analyze and classify major factors influencing business and economic change, including technology, natural resource exploitation, and government policy, with special focus on monetary policy, the gold standard, and tariffs. Students will also interpret modern policy and business practice through the lens of historical business developments. Students will also develop and analyze profiles of American financial and industrial leaders and the companies and industries they created. Prerequisite(s): BUS 109 and EGL 101 with a grade of C or higher.
Credits: Credits:3 (3,0)

BUS 352 Employment Law
This course reviews the field of law governing employment. Topics covered include the following: Employment relationship and procedure, selection, testing, privacy, termination, and arbitration; employment discrimination regarding the Civil Rights Act, Affirmative Action, racial discrimination, sex discrimination, family leave and pregnancy discrimination, sexual orientation, religious discrimination, national origin discrimination, age discrimination and disability discrimination. Also covered are employment regulations regarding unions and collective bargaining agreements, wage and hour regulations, occupational safety and health, workers' compensation, and employee benefits. Prerequisite(s): BUS 202
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 356 Sales Management
The major problems of sales management in the distribution of products and services; the selection, recruitment, and training of sales personnel; measurement of the effectiveness of salespeople, supervision and compensation of salespeople; sales quotas and budgets. Note: Students cannot receive credit for BUS 356 and BUS 256. Prerequisite(s): BUS 254 or Department approval
Credits: Credits:3 (3,0)

BUS 360 Leadership Theories Practices
The following will be covered: definition and significance of leadership; global and cultural contexts of leadership; early theories and practices: the foundations of modern leadership; individual differences and traits and the ability to lead; leadership and "emotional intelligence;" leadership and "the moral compass;" power, influence, and leadership; new models of leadership; leadership of non-profits; and leading change. Prerequisite(s): BUS 109
Course Offered: Summer
Credits: Credits:3 (3,0)

BUS 361 Women and Leadership
In this course, students will examine research on gender and leadership styles, and the effects of stereotypes, and discrimination on women's under-representation in leadership. Students will explore women's challenges and opportunities in leadership positions. This course will equip students with the skills and knowledge necessary to succeed as leaders in various contexts. The course will also cover mentorship, networking, and work-life balance topics, providing students with practical tools and resources for career advancement. Prerequisite(s): BUS 109 with a grade of C or higher
Credits: Credits:3 (3,0)

BUS 363 Cross-Cultural Teamwork & Management
This course introduces and applies cross-cultural teamwork and management concepts. Students will develop cross-cultural skills needed to manage and work across cultures in an ever-changing global business environment. This course provides an intellectual and experiential forum for the development of cross-cultural skills. Specifically, topics include understanding culture, communicating across cultures, cultural intelligence, motivation, and leadership across cultures, and developing cross-cultural competencies, through global teams. The topics discussed will provide students with the framework needed to navigate the culturally diverse environments in which they live and work. Prerequisite(s): BUS 109 and BUS 280
Credits: Credits:3 (3,0)

BUS 366 International Human Resource Management
This course examines the strategies, policies, and practices used in the management of an international work force. Students will learn how global corporations engage in the international aspects of traditional human resource management functions such as staffing, recruitment, development, compensation, performance management, and labor relations. Additional topics specific to having a globalized work force will also be covered, such as global diversity, challenges and stresses facing international assignees, and expatriate management. Prerequisite(s): BUS 280
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 367 Negotiation and Conflict Resolution
This experiential course is intended to help students understand the theory, processes, and practices of negotiation, and also the cross-cultural issues facing negotiation, so they can be more effective negotiators in a variety of situations. This course is highly participatory, and utilizes various types of one-on-one and group-based negotiation simulations. Prerequisite(s): BUS 109
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 368 Performance Management and Compensation
Performance management and compensation are of significant importance for both employees and organizations. Students will focus on major methods for measuring and managing employees' performance, and describing how organizations can recognize individual and group performance through pay and benefits. In doing so, students will identify major considerations in establishing a performance management and compensation system, including legal requirements, equity, and market competitiveness. Prerequisite(s): BUS 109, BUS 266 both with a grade of C or higher
Credits: Credits:3 (3,0)

BUS 370 Counterproductive Behavior in Organizations
Counterproductive work behavior is a phenomenon that no organization can afford to willfully ignore. It depletes organizational resources, erodes production standards, causes unfairness and unrest among employees, and is a violation of the organization’s norms and ethical standards. This course focuses on studying this very important and timely topic to identify the conditions under which counterproductive work behavior is likely to develop and strategies for counteracting it. Prerequisite(s): BUS 109 or Junior-level status
Credits: Credits:3 (3,0)

BUS 379 Business Internship
This upper division course is designed to give students an opportunity to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student.

Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from BUS 379 and BUS 479 Business Internship II. Prerequisite(s): Junior-level status, Department approval, GPA of 3.0 or better
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

BUS 380 Business Internship*AL
This upper division course is designed to give students an opportunity to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from BUS 379 and BUS 479 Business Internship II. Prerequisite(s): Junior-level status, Department approval, GPA of 3.0 or better
Course Offered: Fall, Summer
Credits: Credits:6 (1,0,15)

BUS 381 Business Internship
This upper division course is designed to give students an opportunity to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from BUS 379 and BUS 479 Business Internship II. Prerequisite(s): Junior-level status, Department approval, GPA of 3.0 or better.
Course Offered: Summer
Credits: Credits:9 (1,0,24)

BUS 382 Business Internship
This upper division course is designed to give students an opportunity to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from BUS 379 and BUS 479 Business Internship II. Prerequisite(s): Junior-level status, Department approval, GPA of 3.0 or better
Credits: Credits:12 (1,0,33)

BUS 383 Business Internship
This upper division course is designed to give students an opportunity to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from BUS 379 and BUS 479 Business Internship II. Prerequisite(s): Junior-level status, Department approval, GPA of 3.0 or better
Credits: Credits:3 (3,0)

BUS 385 Business Data Management
In this course students will learn the concepts, principles and techniques used to collect, store, and retrieve data for business purposes. The objective of the course is to provide students with a background that allows them to understand management of data in the context of business organizations and corporations. Topics include a review of data types, modeling data in the organization and database design; an introduction to SQL and an introduction to data warehousing and big data. Prerequisite(s): MTH 116 with a grade of C or higher and Junior level status
Credits: Credits:3 (3,0)

BUS 390 Special Topics in Business Management
This course will provide students the opportunity to learn about contemporary issues in business. Topics covered may include one or more specific areas within business such as Marketing, Leadership, Ethics, and Finance. Methods of teaching and assessment may include the use of seminars, speaker series, simulations, field trips, experiential learning, and the implementation of business ideas and plans. The subject for a particular semester will be announced prior to registration. Prerequisite(s): BUS 109
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 391 Special Topics in Business Management
This course will provide students the opportunity to learn about contemporary issues in business. Topics covered may include one or more specific areas within business such as Marketing, Leadership, Ethics, and Finance. Methods of teaching and assessment may include the use of seminars, speaker series, simulations, field trips, experiential learning, and the implementation of business ideas and plans. The subject for a particular semester will be announced prior to registration. Prerequisite(s): BUS 109
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 395 Creativity and Innovation
This course focuses on discussing the role of creativity and innovation in organizations through the Creative Problem Solving (CPS) Process: Discover, Define, Develop and Delivery. The course will explore tools of identifying problems, converting from creatively conceived innovative ideas to actual product and services development and commercialization stages. The course will also cover the concepts and approaches of various creative problem solving processes to develop ideas into potential innovations. Prerequisite(s): BUS 111 or BUS 109 or Junior standing with department approval
Credits: Credits:3 (3,0)

BUS 399 Real Estate Law
Students taking this course will become familiar with the real estate field and will acquire understanding applicable to roles in real estate sales, investing, and agency. Students will study the various types of real property relationships and transactions, reviewing areas such as contracts, deeds, mortgages, leases, and title searches. Students will be required to construct real property documents, compute closing adjustments, and prepare closing statements. If you took this as a special topics course BUS 390-391, you cannot get credit for it again. Prerequisite: BUS 202
Credits: Credits:3 (3,0)

BUS 400 Quality Techniques
This course covers quality tools and techniques used in problem solving and decision making. Topics include: Pareto charts; cause and- effects diagrams; check sheets; histograms; scatter diagrams; quality function deployment; statistical process control; continuous improvement; Goldratt's theory of constraints; benchmarking; just-in time manufacturing; and implementing total quality. A written assignment will be required that integrates quality topics with problem solving and decision making tools and techniques. Note: Students completing this course may not receive credit for IND 400. Prerequisite(s): BUS 240 or MTH 110
Course Offered: Summer
Credits: Credits:3 (3,0)

BUS 401 Quality Management
This course covers quality philosophies and concepts. Topics include: quality and global competitiveness; human resources and technology; total quality approach; strategic management; quality management and ethics; partnering for competitiveness; quality culture; customer satisfaction and retention; employee empowerment; leadership and change; team building and teamwork; communication and interpersonal relations; education and training; overcoming politics and negativity toward quality in the workplace; relationship of ISO 9000 and Total Quality Management. A written assignment will be required that integrates quality philosophies and concepts with management and human resources issues. Note: Students completing this course may not receive credit for IND 401. Prerequisite(s): BUS 300 or IND 301
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 404 Financial Markets and Institutions
This senior level course describes the various financial markets and the financial institutions that serve those markets. Specific topics include financial intermediaries, primary and secondary financial markets, treasury and agency securities markets, municipal securities markets, financial futures markets, and stock markets in the U.S. and worldwide. Also included

are evolving technologies, especially e-Business and the Internet, and their effect on financial markets and institutions. The course contains oral and written case study analyses utilizing electronic database research techniques. Prerequisite(s): BUS 201 or BUS 307 or department approval
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 406 Business Organization Law
An introduction to the law of agency, partnerships, corporations, limited liability companies, securities, regulations, bankruptcy, employment and anti-trust laws. Prerequisite(s): BUS 202 or Department approval.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 409 Strategic Management
This course covers key strategic management topics including internal and external scanning for SWOT (strengths, weaknesses, opportunities, and threats) analysis, competitive advantage, cost versus differentiation, horizontal and vertical integration, strategic alliances, strategy implementation, as well as many other important topics. Special attention will be paid to international contexts, issues of ethics and governance, and measurements of strategic success. Students will be required to present oral and/or written case studies and analyses. Students who have previously completed IND 409 cannot receive credit for BUS 409. Prerequisite(s): BUS 300, Senior level status
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 410 Senior Project
This is an independent study course. Students must obtain permission from a Project Advisor before registering for this course. Although there is some flexibility, most senior projects will involve student participation onsite in a company. The topic for the senior project will utilize skills and knowledge acquired in previous Management Technology and related courses. Note: Students completing this course may not receive credit for IND 410 Prerequisite(s): BUS 409
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 411 Financial Statement Analysis
This course covers the main reasons for and techniques used in financial statement analysis. This analysis uses the historical record of companies, as presented in financial statements, to answer questions regarding a firm's credit worthiness and risk; current and projected financial performance; strengths and weaknesses in financial position; and strategy development for future operations. The course includes analysis tools and techniques such as common size financial statements, trend statements, and financial ratios. Also covered will be sources of financial information embodied in corporate annual reports such as the auditor's report; footnotes and supplemental schedules; and SEC Forms 10-K and 10-Q. Prerequisite(s): BUS 201 or department approval
Course Offered: Summer
Credits: Credits:3 (3,0)

BUS 412 Business, Government and Society
This course covers the interrelationships among business, government, and society. Included also are the ethical, economic, political, and social issues managers face regarding consumers, employees, suppliers, the environment, government laws and regulations, and stockholders. These interrelationships and issues are discussed and analyzed in a managerial context employing stakeholder, historical, and global perspectives. Individual and group case study presentations both in oral and written formats are a major focus of the course.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 413 Advanced Enterprise Resource Planning
This advanced-level Enterprise Resource Planning (ERP) course includes high-level information technology coverage of Scheduling, Planning, MRP, Logistics, Warehousing, Procurement, Quality, Vendor Management, Cost Accounting, Forecasting, KPI, Supply Chain, and Customer Resource Management. Also covered are concepts and software applications, pertaining to product design, development, manufacturing (production), marketing, sales, and field service. This course emphasizes proficiency in all the skill sets typically required within industry practices. Prerequisite(s): BUS 300 or BCS 300 and BUS 317 or BCS 317
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 421 Advanced Topics in Corporate Finance
This advanced corporate financial management course covers topics taken from the Institute of Management Accountants Certified in Financial Management program Part 2CFM examination. Topics covered include working capital policy and management; strategic issues in finance; portfolio and risk management; external financial environment; and employee benefit and pension plans. Prerequisite(s): BUS 307 or department approval
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

BUS 440 Visual Analytics
This course focuses on the visualization techniques used to represent Business Information. The course enables students to answer three questions: What data do the final users need to see? What is the most effective way to develop and design the representation of data? How could the proposed visual representation be constructed? Topics covered include information visualization techniques for abstract data, visualization for spatial data, and visual analytical techniques applied to data transformation and visual exploration. This course is hands-on work intensive and helps develop skills in the use of modern visualization tools. Prerequisite(s): EGL 101 and BUS 340 with a grade of C or higher
Credits: Credits:3 (3,0)

BUS 442 Human Resources Analytics
This course covers business analytics in the area of human resource management. The primary emphasis of this course is on the application of data analytics in the areas of staffing/selection, training and development, performance appraisal, and pay for performance. Topics also include building selection and performance assessment measures that are statistically reliable and valid, as well as analyzing and applying those measures using CFA (Confirmatory Factor Analysis), OLS (Ordinary Least Squares) regression, and logistic regression. Prerequisite(s): BUS 240 or equivalent and Junior Level Standing or department approval
Credits: Credits:3 (3,0)

BUS 445 Advanced Business Analytics
This course focuses on the advanced tools and techniques used in business analytics. The course is divided in two major areas: machine learning and social network analytics. The first part will focus on key concept from machine learning such as nearest neighbors, decision trees and neural networks. R is the main tool used to implement these techniques. The second part is focused on tools and techniques used to analyze social networks structures and develop solutions to aid decision making. Prerequisite(s): BUS 340 with a grade of C or higher
Credits: Credits:3 (3,0)

BUS 448 Business Analytics Project *AL
This is a capstone course that focuses on the solution of real-life problems in business analytics. During the course students have the opportunity to apply the knowledge acquired through the program. Students will frame the problem, collect and process data, and use the analytics framework (descriptive, predictive, and prescriptive analytics) to obtain solutions and provide recommendations. Note: Students cannot get credit for BUS 448 and 448W; BUS 448W can be used to fulfill the writing intensive requirement. Prerequisite(s): BUS 440 with a grade of C or higher
Credits: Credits:3 (3,0)

BUS 460 Leadership and Ethics
This advanced-level business management course covers theories, case studies, and skill development applications relating to effective leadership and ethics. Emphasis will be on the interrelated role of laws, cultural norms, attitudes, moral development, situational circumstances, and technologies as determining effects on ethical leadership. Coursework includes leadership-and ethics related research literature and databases. Note: Students cannot get credit for BUS 460 and 460W; BUS 460W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Business Management Department. Prerequisite(s) BUS 109 or Management course, Senior-level status.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

BUS 470 Advanced Accounting
This course covers accounting for partnerships: formation, operation, dissolutions, and liquidation. Also covered are analysis of business

combinations; statutory mergers, consolidations, acquisition of subsidiaries, preparation of consolidated financial statements including the equity method and elimination entries. Additionally, the course includes an introduction to foreign currency translation and transactions, the SEC, and the Sarbanes-Oxley Act. Prerequisite(s): BUS 272 or Department approval.
Course Offered: Summer
Credits: Credits:3 (3,0)

BUS 471 Auditing
This course covers professional ethics and possible legal liability of the auditor. Emphasized are Generally Accepted Standards (GAAS) and other standards related to attestation engagements and skills needed to apply that knowledge in and other attestation engagements; the role of internal control; uses of sampling; effects of information technology the reports rendered by auditors; and the methods for preparing communications to satisfy engagement objectives. Prerequisite(s) BUS 272
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 473 Global Finance
Introduces students to financial management in the context of international and global market and firm activities. Topics presented include international financial markets, foreign exchange markets, exchange rates, portfolio management from a global perspective, risk management, international banking, and multinational financial management. Prerequisite(s): BUS 201, 280
Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 479 Business Internship II
This senior-level course is designed to give students who have completed BUS 379 an opportunity to continue to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from Business Internships, BUS 379 and BUS 479. Prerequisite(s): BUS 379, or BUS 380 or BUS 381 or BUS 382, Senior-level status, Department approval, GPA 3.0.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 to 3 (1,0,6 to 6)

BUS 480 Business Internship II
This senior-level course is designed to give students who have completed BUS 379 an opportunity to continue to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from Business Internship, BUS 379 and BUS 479. Prerequisite(s): BUS 379, or BUS 380 or BUS 381 or BUS 382, Senior-level status, Department approval, GPA 3.0.
Course Offered: Summer
Credits: Credits:6 (1,0,15)

BUS 481 Business Internship II
This senior-level course is designed to give students who have completed BUS 379 an opportunity to continue to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from Business Internship, BUS 379 and BUS 479. Prerequisite(s): BUS 379, or BUS 380 or BUS 381 or BUS 382, Senior-level status, Department approval, GPA 3.0.
Credits: Credits:9 (1,0,24)

BUS 482 Business Internship II
This senior-level course is designed to give students who have completed BUS 379 an opportunity to continue to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from Business Internship, BUS 379 and BUS 479. Prerequisite(s): BUS 379, or BUS 380 or BUS 381 or BUS 382, Senior-level status, Department approval, GPA 3.0.
Credits: Credits:12 (1,0,33)

BUS 483 Business Internship II
This senior-level course is designed to give students who have completed BUS 379 an opportunity to continue to gain in-depth work experience and skills under the tutelage of a business professional. The work done by the student is guided by objectives agreed to by the work supervisor, Internship Coordinator, and the student. Students are required to submit a written proposal, progress reports in the form of a weekly work experience journal, and a final report to be presented to the Internship Coordinator and work supervisor. Note: No more than 15 credits may be earned in total from Business Internship, BUS 379 and BUS 479. Prerequisite(s): BUS 379, or BUS 380 or BUS 381 or BUS 382, Senior-level status, Department approval, GPA 3.0.
Course Offered: Summer
Credits: Credits:15 (1,0,42)

BUS 494 Global Strategy
This capstone course for global business management majors will cover a wide range of current issues in strategy and policy and integrates concepts from across the core global business courses. Students will be required to synthesize and apply these methods and concepts to case studies and case write-ups. The course will culminate with students developing and completing a research project and presentation based upon their personal interest in global/international business. Note: Students cannot get credit for BUS 494 and BUS 494W; BUS 494W can be used to fulfill the writing intensive requirement. Prerequisite(s): BUS 280, 320, 322, and 409
Course Offered: Summer
Credits: Credits:3 (3,0)

BUS 502 Project Management
This course covers the core knowledge of the project management professions. It includes the creation of the project charter and scope statement, establishment of the Work Breakdown Structure (WBS), and communication of the overall plan including risk planning, resource planning, creation of the project schedule and budget, development of the project team, and measurement and control of project implementation. Course content is aligned with Project Management Professional Certification requirements, such that the course serves as a preparation for the PMP examination (PMP examination is not part of the course). Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

BUS 504 Technology Management Ethics and Policies
This course defines ethics in the context of engineering technology management and its application in the context of the profession and licensure. It also covers the role of ethics during the bidding stage. This course addresses ethics for union and management, the role of ethics in the event of a change order, and ethics in private versus public ventures. Other topics covered are ethics in domestic versus international markets, the application of ethics in a twenty-first century global market, individual responsibilities and values, cultural background and its effect on ethics, peer review and peer attitudes toward s ethics, and leadership, power and the politics of ethics. This course uses real-life case studies as recorded by the National Society of Professional Engineers (NSPE). Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

BUS 532 Legal Aspects of Construction Management
This course covers the complexity of legal environments in construction. It includes principles of contract, standard forms of contract, contractual relationships, bidding documents, dispute resolution, red-flag clauses, labor agreements, insurance and surety bonds, change order management, differing site conditions, delays, suspensions and terminations, liquidated damages, allocating responsibility for delays, constructive acceleration, and associated documentation. Prerequisite(s): Graduate Status in ETM and permission of the graduate coordinator.

Course Offered: Fall
Credits: Credits:3 (3,0)

BUS 630 Decision Making and Risk Management
This course covers concepts and methods for making complex decisions in Technology Management. Students will identify criteria and alternatives, set priorities, and engage in allocating resources, strategic planning, resolving conflict, and making decisions. Students will select the most effective decision making approaches to evaluate multiple alternatives in scenarios with conflicting objectives and different levels of uncertainty. Students will also learn how to generate risk management plans, appraise mitigating risk options and revise decision making failures Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

BUS 670 Master's Project
This is a Capstone course for students who do not plan to take the thesis option. The course is designed as an independent study in which the student utilizes their knowledge in the field to evaluate a series of case studies. A complete oral and written presentation is required of each student detailing their work. In each case study the student must clearly demonstrate their ability to understand, analyze and solve technical and/or managerial problems by applying their knowledge gained through their course work. Students completing this course will not receive credit for ETM 670. Prerequisite(s): Completion of twenty-one (21) credits of required Core and Track Specific Courses in the ETM program and permission of graduate coordinator.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

BUS 671 Master's Thesis
This is an independent study performed by the students to utilize their knowledge in engineering technology management. This practice-oriented work contributes to the enhancement of productivity, the improvement of quality, and the achievement of an industry's cost effectiveness. The master's thesis draws on students' individual interests, stimulating their critical thinking, and sharpening their problem-solving abilities. A literature survey, analysis, discussion, and conclusions are documented in the thesis under the direction of a faculty mentor and presented by the student at the completion of the work to demonstrate their professional competency in their field of study. Students completing this course will not receive credit for ETM 671. Prerequisite(s): Completion of twenty-one (21) credits of required Core and Track Specific Courses in the ETM program and permission of graduate coordinator.
Course Offered: Fall, Spring
Credits: Credits:1 to 1 (1 to 1,0)

BUS 680 Special Topics in Technology Management
This special topics course is designed to inspire students to study a specific topic or several related topics that address a special interest in technology management. It will require students to research, investigate, and analyze design, manufacturing, quality, or production issues. The course strategy is established by the instructor and adjusted to respond to students' interest to achieve the class goal of enhancing in-depth understanding of the subject matter. Students taking ETM 680 cannot get credit for BUS 680. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CHINESE (CHI)

CHI 151 Chinese I
A beginning course in Chinese emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

CHI 152 Chinese II
A continuation of Chinese 151. This course emphasizes the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative and cultural awareness. Prerequisite(s): CHI 151 or 2-3 years of high school Chinese.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

CHEMISTRY (CHM)

CHM 111 Chemistry and the Public Interest
An abridged course in General Chemistry which presents the ideas and methods of chemical science in a qualitative and conceptual fashion. This course assumes no previous science background and will emphasize the fundamentals of measurement, atomic theory, bonding, solutions, acids and bases, salts, equations, chemical arithmetic and energy transfer. Illustrations and applications of concepts will be drawn from everyday life. (This course is intended to fulfill the science requirements of non-science majors and is NOT OPEN to science, health science, or pre-health majors). Prerequisite(s): MP2 or MTH 015
Credits: Credits:3 (3,0)

CHM 112L Chemistry and Public Interest Lab
A one semester laboratory course for non-science majors designed to provide students with experience in the methods of chemistry. Students will investigate the properties of substances, perform chemical analysis and substance identification, synthesize a drug and a natural product, and test manufacturers' claims for consumer products. Prerequisite(s): MP2 or MTH 015
Credits: Credits:1 (0,2)

CHM 124 Principles of Chemistry
A one semester survey of general chemistry. Emphasis is placed on quantitative applications of chemical concepts. Topics include: measurement, matter and energy, atomic structure, periodic table, chemical bonding, nomenclature, chemical stoichiometry, chemical equations, gases, liquids and solids, solutions, acids and bases, equilibrium and kinetics. This course will fulfill the requirement of certain science, health science, or pre-health programs that have an introductory chemistry course as a prerequisite. Note: the laboratory course CHM 124L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): MP2 or MTH 015 or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

CHM 140 Introduction to General, Organic and Biochemistry
A one semester course with laboratory designed primarily for Dental Hygiene students. Basic principles of general, organic and biochemistry are presented with emphasis on their applications to health science. Topics include measurement, states of matter, bonding theory, solutions, acids, buffers and pH, and the structure and function of carbohydrates, lipids, sterols, amino acids and proteins and a molecular approach to enzymatic action, digestion, metabolism and nutrition. Note: the laboratory course CHM 140L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): MP2 or MTH 015 and High School chemistry with Laboratory or CHM 124.
Course Offered: Spring
Credits: Credits:4 (3,2)

CHM 152 General Chemistry Principles I
The first part of a two semester sequence in General Chemistry Principles with laboratory. This course covers the qualitative and quantitative aspects of scientific measurement, the nature of matter, gases, liquids and solids, energy, atomic theory, properties of elements, chemical bonding, molecular structure and properties, stoichiometry, thermochemistry and solutions. Note: the laboratory course CHM 152L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): MP3 or MTH 116 AND Regents Chemistry or an equivalent High School Chemistry with Laboratory or CHM 124
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

CHM 153 General Chemistry Principles II
A continuation of General Chemistry Principles I, which includes laboratory. Topics include: solutions and their colligative properties, acids and bases, chemical equilibrium, ionic equilibrium, pH, buffers, titration curves, oxidation and reduction balancing, electrochemistry, chemical kinetics, the covalent bond and the shape of molecules. Note: the laboratory course CHM 153L is a part of your grade for this course. Attendance in the

laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): CHM 152
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

CHM 260 Fundamentals of Organic Chemistry
A one semester course in organic chemistry designed to provide background in the fundamentals of nomenclature, mechanisms, structures, and synthesis of carbon based compounds. This course is designed for science and health science majors who desire a general rather than a detailed knowledge of the compounds of carbon. Topics to be covered include: structure and bonding, acid/base chemistry, isomerism, stereochemistry, and structure determination. Functional groups to be covered include: hydrocarbons, alcohols, ethers, aldehydes and ketones, carboxylic acids, carboxylic acid derivatives and amines. Laboratory work will include common organic techniques and experiments supporting the principles covered in lecture. Note: The laboratory course CHM 260L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): CHM 153 Corequisite(s): CHM 260L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

CHM 270 Organic Chemistry I
This course is a study of the compounds of carbon involving a thorough integration of observation and theory and emphasizing the relationships between structures, properties, mechanisms and reactions. This course, intended for science and pre-professional majors, covers topics such as bonding and structure, alkanes, alkenes, alkynes, cycloaliphatic hydrocarbons, stereochemistry, alcohols, and phenols. Note: the laboratory course CHM 270L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): CHM 153 Corequisite(s): CHM 270L
Course Offered: Fall, Spring, Summer
Credits: Credits:5 (3,4)

CHM 371 Organic Chemistry II
This course is both a continuation of functional groups from CHM 270 and an expansion on concepts and techniques in Organic Chemistry. Functional groups covered include alcohols and phenois, ethers and epoxides, carboxylic acids, esters, anhydrides, aldehydes, ketones, and amines. The course will also train students in: interpretation of proton & carbon-13 nuclear magnetic resonance, infrared, and ultraviolet spectra of simple organic molecules; constructing mechanisms for organic transformations; devising syntheses of simple and moderately complex organic molecules. Laboratory work will reinforce these skills. Note: the laboratory course CHM 371L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): CHM 270 with a grade of C- or higher Corequisite: CHM 371L
Course Offered: Fall, Spring, Summer
Credits: Credits:5 (3,4)

CHM 380 Biochemistry
A one semester course covering the fundamentals of biochemistry. Topics covered include: the structure and function of important biomolecules such as carbohydrates lipids, amino acids, proteins and nucleic acids; enzyme kinetics and the use of cofactors and coenzymes; and metabolic pathways including glycolysis, TCA, electron transport system, fatty acid and amino acid pathways. Laboratory work includes current biochemical laboratory techniques such as chromatography and electrophoresis, application of specific topics described above, and analysis of data from laboratory experiments. Note: the laboratory course CHM 380L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): CHM 260 or CHM 271
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

CHM 381 Advanced Biochemistry
A continuation of the concepts covered in Biochemistry. Students will examine the pathways, enzymes, and organic chemical mechanisms involved in the metabolic pathways of carbohydrates, lipids, amino acids, nucleic acids, and photosynthesis. Additional emphasis will be placed on the unique coenzymes that are required for these metabolisms. Students will also be trained in reading and interpreting research publications in biochemistry. Prerequisite(s): CHM 271 and CHM 380
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CHM 480 Chemistry Research I
Chemistry Research I represents substantial projects or work experiences for 135 hours earning 3 credits. Students will work alongside chemistry faculty in their professional research. Registration requires submission of resume three months in advance, chemistry faculty invitation or recommendation, and department chair approval. Prerequisite(s): CHM 270 and Permission of Department Chair.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (0,0,9)

CHM 481 Chemistry Research II
Chemistry Research II represents substantial projects or work experiences for 135 hours earning 3 credits. Students will work alongside chemistry faculty in their professional research. Registration requires submission of resume three months in advance, chemistry faculty invitation or recommendation, and department chair approval. Prerequisite(s): CHM 480 with a grade of B or higher and Permission of Department Chair.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (0,0,9)

CIVIL ENGINEERING TECHNOLOGY (CIV)

CIV 101 Introduction to Civil Engineering Technology
This course is intended to introduce students to the Civil Engineering profession and to orient them to the tools, techniques, and practices involved in the Civil Engineering Technology program. The nature of the disciplines, career options, credentialing, and ethics in the field will be examined. Basic mathematical and computer techniques will be reviewed, and a project allowing- the application of these techniques, as well as introductory practice procedures, will be conducted.
Credits: Credits:3 (3,0)

CIV 106 Statics
This is a basic course in statics. The main objective of this course is to provide the student with a basic understanding of the principles of statics. Topics such as resultant of a force, equilibrium of forces, moments, couples, analysis of simple trusses, centroids, center of gravity, moments of inertia and friction are covered in this course. Prerequisite(s): MTH 129 Corequisite(s): PHY 135
Credits: Credits:3 (2,2)

CIV 207 Elements of Strength of Materials
Introduces to the concepts of stress, strain, bending and shear stresses, including elasticity, shear and moment diagrams for beams, moment of inertia of unsymmetrical sections, thermal and combined stresses. Laboratory demonstration of experiments and testing equipment are included. Prerequisite(s): CON 106 or CIV 106 or MET 201
Credits: Credits:3 (2,2)

CIV 208 Dynamics
This course is a study of the kinematics of particles, rigid body, vibration and highway dynamics. Kinematics of particles includes particle's rectilinear motion in surface and under gravity, projectile motion, curvilinear motion, relative motion and dependent motion. Kinematics of rigid body includes translation and rotation. Kinetics of particles and rigid body focuses on the equation of motion, force, work, impulse, momentum and conservation principle. Basic understanding of free and torsion vibration is also included. How equations of motions are modified for roadway conditions including friction, grade and curves is also discussed. NOTE: Students completing this course cannot receive credit for MET302. Prerequisite: CIV 106 or CON 106
Credits: Credits:3 (3,0)

CIV 302 Soils, Foundations and Earth Structures
This course introduces soil mechanics, foundation and earth structure to the engineering technology students. It includes soil classification, soil

properties, soil stresses, earth pressures, bearing capacity, slope stability. It also discusses principles of foundation analysis and design, retaining walls, etc. Laboratory experiments to test behavior of soils included. Prerequisite(s): CON 207 or CIV 207 Corequisite(s): CIV 302L
Credits: Credits:3 (2,2)

CIV 303 Hydraulics
This course provides a broad understanding of the basic principles of engineering hydraulics and hydrology. The emphasis is on application of the theories. It involves basic principle of hydraulics, flow in closed conduits, flow in open channels, hydraulic structures, principles of hydrology, groundwater hydraulics, and related laboratory experiments. Computer application included. Prerequisite(s): CON 207 or CIV 207 and PHY 136 Corequisite(s): CIV 303L
Credits: Credits:3 (2,2)

CIV 350 Numerical Methods in CET
This course will introduce methods for the analysis of problems in Civil Engineering Technology. Methods will include probability and statistical analysis, linear programming, optimization, approximation, and curve fitting. Applications to the disciplines of Civil Engineering Technology will be considered. Computer software, including those for analysis and programming will be introduced. Prerequisite(s): MTH 151 or MTH 236
Credits: Credits:3 (3,0)

CIV 399 Civil Engineering Technology Internship
A program of practical experience and independent study to supplement and enrich classroom learning. It is a fully faculty supervised structured industrial experience. Periodical written reports and end of the assignment employer report required. Prerequisite(s): ARC 121 and CIV 207, Junior-level status, and Department Chair approval.
Credits: Credits:3 (1,0,6)

CIV 402 Civil Engineering Materials
This course covers a study of the materials used for Civil Engineering construction purposes. The materials to be studied are concrete, steel, asphalt and wood. The physical parameters which contribute to material performance are studied. Appropriate laboratory tests are included. Documents from the American Concrete Institute and the American Society of Testing material will be used. Prerequisite(s): CIV 207 Corequisite(s): CIV 402L
Credits: Credits:3 (2,2)

CIV 403W Field Practices in Civil Engineering Technology (Writing Intensive)
Learners will study and evaluate practices in the field during the construction phase of Civil Engineering projects. Scheduling, estimation, methods, safety, and financial aspects will be considered. A Civil Engineering project will be examined for application of the considered topics. This course cannot be taken for credit by students majoring in Construction Management Engineering Technology. Prerequisites: EGL 101 with a grade of C or higher, and CIV 207.
Credits: Credits:3 (3,0)

CIV 408 Structures
This course introduces fundamentals of structural analysis for beams, trusses, frames, etc. It includes statically determinate as well as indeterminate structures. This course also introduces fundamentals of reinforced concrete design including strength design for beams, columns, footings, and two way slabs. Computer application included. Prerequisite(s): CIV 207 or CON 207
Credits: Credits:3 (2,2)

CIV 409 Structural Design
This course introduces fundamentals of structural steel design with basic frame analysis. This includes design of tension members, compression members, beams, columns, and various connections. This course also teaches the basic principles of wood design, which includes formwork design and frame construction. Computer application is included. Prerequisite(s): CIV 207 or CON 207
Credits: Credits:3 (2,2)

CIV 410 Transportation Engineering
This course focuses on the fundamentals of planning, design, and operation of various modes of transportation engineering in transportation systems. General administration, legislation, financing, studies, and evaluations of transportation projects will be addressed. The design parameters and characteristics of highway, bus, rail, air, and water transportation modes will be considered. Consolidation with a review of intelligent transportation systems and hands-on projects within various modes will also be undertaken. Prerequisite(s): CIV 207, CON 207
Credits: Credits:3 (3,0)

CIV 411 Water & Wastewater Systems
This course is an introduction to water and wastewater treatment, interpretation of analyzed physical, chemical, and biological aqueous characteristics associated with the design and operation of treatment processes. Fundamental principles employed in the treatment of drinking water and sanitary wastewater will be covered. Essential components and design procedures for stormwater and sanitary sewer systems will be introduced. Prerequisite(s): CIV 303 or CON 303 and CHM 152
Credits: Credits:3 (3,0)

CIV 412 Highway Engineering
This course focuses on the planning, design, and construction of highway transportation facilities. Topics to be covered include highway administration and finance, traffic flow characteristics, and driver characteristics. Design of geometry, roadside, drainage, and intersections will be considered. Further, considerations of traffic control and pavements will be made. Consideration of these topics will be based on standards promulgated by AASHTO and NYSDOT. Prerequisite(s): CIV 302, CON 302
Credits: Credits:3 (3,0)

CIV 414 Reinforced Concrete Design
This course will cover the design of members and frames of reinforced concrete. Topics include principles of structural design; properties of concrete and reinforcement; design of slabs, beams, columns, and footings; and introduction to pre-stressed concrete. Emphasis is on the use of the ACI code, and a comprehensive group design project is assigned. Prerequisite: CIV 408 or CON 408
Credits: Credits:3 (2,2)

CIV 496 Capstone Project
This is a capstone course. It utilizes skills and knowledge acquired in various courses in the curriculum and general education courses to produce a real-life project. In this course, students follow a faculty-driven structured process to integrate various components of a project. This course is intended to help the student to synthesize skills and knowledge learned in other courses to apply in real-life situations. Prerequisite(s): Department Approval, Upper Division Status, recommended in the final semester, CON 401W, CIV 408, CIV 410.
Credits: Credits:3 (2,0,3)

CONSTRUCTION MANAGEMENT (CON)

CON 101 Introduction to Technology and Applied Programming
A survey of technological concepts, terminology and a brief review of mathematical concepts. This course introduces concepts of vector and its applications. It introduces hands-on programming and its applications, and reviews problem-solving techniques with technological applications.
Credits: Credits:2 (1,2)

CON 103 Surveying
The development of skills in the use of the basic surveying instruments-tape, level, transit. Trigonometric and differential leveling and cross-sectioning. Azimuth, bearing and angle determination by repetition procedures. Angular closures. Stadia and stadia reduction of inclined sights, topographic mapping by transit stadia and plan table methods. This course will include a field laboratory assignment.
Course Offered: Fall
Credits: Credits:3 (2,3)

CON 106 Statics
This is a basic course in statics. The main objective of this course is to provide the student with a basic understanding of the principles of statics. Topics such as resultant of a force, equilibrium of forces, moments, couples, analysis of simple trusses, centroids, center of gravity, moments of inertia and friction are covered in this course. Prerequisite(s): MTH 129 Corequisite(s): PHY 135
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

CON 111 Graphics I
To develop student's abilities in lettering, technical sketching, drafting and the use of drafting instruments. The fundamentals of orthographic projection and pictorial drawings develop the student's abilities to visualize and describe objects and structures graphically.
Credits: Credits:2 (1,2)

CON 121 Graphics II
To continue the development of the graphic skills from Graphics I to include one and two point perspective drawing and the introduction of descriptive geometry. Also included is an extensive use of computer-aided drawing on AutoCAD. Prerequisite(s): CON 111
Credits: Credits:2 (1,2)

CON 161 Materials and Methods of Construction I
An introduction to the engineering properties and the uses of construction materials including soils, concrete, masonry, steel and wood. Classroom testing demonstrations of several materials are included. Conventional construction systems are studied. The student is also given an orientation to the construction industry, the associated professions, and the varieties of employment available. Note: Students cannot get credit for CON 161 and 161W; CON 161W can be used to fulfill the writing intensive requirement which is offered at the discretion of the Architectural/Construction Management Department
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CON 162 Materials and Methods of Construction II
A continuation of CON 161 extended to include the study of architectural properties of selected materials, methods of construction, and building components. Class work includes technical problem solving using quantitative and graphic analysis of specific building construction systems. Prerequisite(s): CON 161
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CON 207 Elements of Strength of Materials
Introduces to the concepts of stress, strain, bending and shear stresses, including elasticity, shear and moment diagrams for beams, moment of inertia of unsymmetrical sections, thermal and combined stresses. Laboratory demonstration of experiments and testing equipment are included. Prerequisite(s): CON 106 or CIV 106 or MET 201
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (2,2)

CON 251 Architectural Design I
Drafting standards, techniques and creative design principles related to the field of architecture. Freehand drawing design problems with the development of research notes, preliminary studies and architectural presentation drawings.
Credits: Credits:1 or 1 (2,3)

CON 302 Soils, Foundations and Earth Structure
This course introduces soil mechanics, foundation and earth structure to the engineering technology students. It includes soil classification, soil properties, soil stresses, earth pressures, bearing capacity, slope stability. It also discusses principles of foundation analysis and design, retaining walls, etc. Laboratory experiments to test behavior of soils included. Prerequisite(s): CON 207 or CIV 207 Corequisite(s): CON 302L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

CON 303 Hydraulics
This course provides a broad understanding of the basic principles of engineering hydraulics and hydrology. The emphasis is on application of the theories. It involves basic principle of hydraulics, flow in closed conduits, flow in open channels, hydraulic structures, principles of hydrology, groundwater hydraulics, and related laboratory experiments. Computer application included. Prerequisite(s): CON 207 or CIV 207 and PHY 136 Corequisite(s): CON 303L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

CON 350 Introduction to Construction Engineering
This course introduces construction engineering principles and methods and equipment used in heavy and commercial construction. It includes earthmoving excavating, loading and hauling, rock excavation, compressed air and water systems, tunneling, and some selected topics from building construction. Prerequisite(s): CON 162 and CON 207
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CON 351 Construction Safety
This course covers the principles required for the assurance of safety on construction sites. The main topic of the course is the review of the regulations put forth federal law 19 CFR 1926, as enforced by OSHA. Along with coverage of accident theory, hazard analysis, and incident investigation, the course provides material in accordance with OSHA 30-hour certification requirements. Prerequisite(s): CON 161, Junior Status.
Course Offered: Spring
Credits: Credits:3 (3,0)

CON 355 Construction Management Financial and Accounting Principles
This course covers basic construction financing and cost accounting systems, job costing approaches, project budgeting, financial reporting procedures, forecasting financial needs, time value of money, evaluating investments, construction loans and credit, the impact of taxes and life cycle analysis. Computers applied as required. Prerequisite(s): BUS 109 and Junior level status
Course Offered: Spring
Credits: Credits:3 (3,0)

CON 357 Quantity Surveying and Costing
This course focuses on fundamentals of quantity survey and costing of residential and commercial facilities. Quantification of materials from construction drawings is covered in this course. Topics also covered range from site work, forms, concrete, metals and masonry, plumbing and electrical to wood framing and steel framing. The course also introduces fundamentals of computer assisted estimating. Prerequisite(s): CON 162
Course Offered: Spring
Credits: Credits:3 (3,0)

CON 361 Government Building, Environmental Codes and Regulations
This course studies the concepts in preparation of an environmental impact statement. It also reviews state and local building and land use controls. Attention will be given to governmental regulations required to obtain building permits for particular construction projects. Prerequisite(s): CON 162
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CON 365 Highway Design and Construction
Design criteria for roadways including arterial signalization speed considerations, visual constraints and reaction criteria. Superelevation and spiral curve criteria. Construction quantification, haul considerations and mass curve analysis. Traffic considerations, destination surveys and road saturation criteria. Intersection analysis, striping, signage and lighting. Barriers, types and design considerations. Economic analysis and environmental constraints. Appurtenant structure consideration such as drains, curbing, curb cuts and ramps. Pavement stability. Prerequisite(s): CON 303
Credits: Credits:3 (3,0)

CON 399 Applied Research Topics
A program of applied research and independent study on topics a faculty member is currently working on. This course is meant to enrich the learning experience by introducing the student to methods and analysis in applied research. This is a fully faculty directed and supervised structured research experience. Applied research work will be presented in an appropriate forum. Prerequisite(s): Associate degree in Construction Technology or third year standing in a Construction Technology program.
Course Offered: Fall
Credits: Credits:3 (1,0,6)

CON 401W Construction Project Management and Scheduling (Writing Intensive)
This course gives an in-depth introduction and orientation to construction project management. This includes professional construction management in practice and methods in professional construction management. Some of the areas this course will cover are: Bidding and Award, Application of Controls, Scheduling, Planning and Control of Operations and Resources, Procurement Quality Assurance, Safety and Health in Construction,

Industrial Relations. Computer Applications included. This is a writing-intensive course. Note: Offered at the discretion of the Construction/ Architectural Management Department. Prerequisite(s): CON 161, EGL 101 with a grade of C or higher, and junior status.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CON 402 Civil Engineering Materials
This course covers a study of the materials used for Civil Engineering construction purposes. The materials to be studied are concrete, steel, asphalt and wood. The physical parameters which contribute to material performance are studied. Appropriate laboratory tests are included. Documents from the American Concrete Institute and the American Society of Testing material will be used. Prerequisite(s): CON 161, Junior Status
Corequisite(s): CON 402L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

CON 405 Advanced Estimating
This course attempts to give the students a broader perspective based on the various roles an estimator may play that requires preparation or interpretation of cost data. It provides an understanding of the importance of accurate estimating in controlling project cost and in determining project budgets. It includes references and examples that cover the wide range of project types. It also covers present computer technology in the field of estimating. Prerequisite(s): CON 357
Credits: Credits:3 (3,0)

CON 406 Advanced Project Planning and Scheduling
CON 406 Advanced Project Planning and Scheduling. Topics include introduction to advanced project planning concepts and terminology, development of schedule activities and preparing and maintaining computerized schedules. Introduction to Building Information Modeling (BIM). Prerequisite(s): CON 401W
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CON 407 Building Commissioning
This course provides various aspects of Building Commissioning process that includes verifying all the subsystems of a building such as HVAC, plumbing, electrical, fire/life safety, building envelopes, lighting etc. Students will develop an understanding of the relationships between new construction and LEED Building Commissioning credits. Laboratory tests on startup and optimization of energy uses of HVAC, Electrical and Plumbing components are included. Prerequisite(s): ARC 263
Credits: Credits:3 (2,2)

CON 408 Structures
This course introduces fundamentals of structural analysis for beams, trusses, frames, etc. It includes statically determinate as well as indeterminate structures. This course also introduces fundamentals of reinforced concrete design including strength design for beams, columns, footings, and two way slabs. Computer application included. Prerequisite(s): CON 207 or CIV 207
Credits: Credits:3 (2,0,2)

CON 409 Structural Design
This course introduces fundamentals of structural steel design with basic frame analysis. This includes design of tension members, compression members, beams, columns, and various connections. This course also teaches the basic principles of wood design, which includes formwork design and frame construction. Computer application is included. Prerequisite(s): CON 207 or CIV 207
Course Offered: Fall, Spring
Credits: Credits:3 (2,0,2)

CON 496 Capstone Project
This is a capstone course. It utilizes skills and knowledge acquired in various courses in the curriculum and general education courses to produce a real-life project. In this course, students follow a faculty driven structured process to integrate various components of a project. This course introduces very little new material, rather it helps the student to synthesize skills and knowledge learned in other courses to apply in real-life situations. Prerequisite(s): Department Approval, Upper Division Status, recommended in the final semester, CON357, ARC 364 and CON401W.
Course Offered: Fall, Spring
Credits: Credits:3 (2,0,3)

CON 497 Senior Project I
Part I of a two-part capstone course. Involves writing the proposal and researching background for Part II of Senior Project CON 498. It will utilize skills and knowledge acquired in various curriculum and non-curriculum courses to solve a real-life construction problem. It will involve an independent investigation of a technical problem of interest to both the student and a faculty member who shall act as Project Advisor.
Credits: Credits:1 (0,3)

CON 498 Senior Project II
Part II of two-part capstone course. Involves investigation of proposed problem, including test, analysis, design, etc. along with formal report and presentation to senior project faculty committee. It will utilize skills and knowledge acquired in various curriculum and non-curriculum courses to solve a real-life construction problem. It will involve an independent investigation of a technical problem of interest to both the student and a faculty member who shall act as Project Advisor.
Credits: Credits:2 (0,6)

CON 499 Senior Project
This is a capstone course. It will utilize skills and knowledge acquired in various curriculum and non-curriculum courses to solve a real life construction problem. It will involve an independent investigation of a technical problem of interest to both the student and a faculty member who shall act as Project Advisor.
Credits: Credits:3 (0,9)

COMPUTER SECURITY TECHNOLOGY (CPS)

CPS 100 Introduction to Cybersecurity
This course introduces the bird's-eye view of cybersecurity landscape and the computer security related curricula and programs at the college level. Students will gain knowledge and skills that improve their levels of readiness to start the journey of learning cybersecurity and ultimately becoming cybersecurity professionals. It will introduce topics relevant to the major, such as computer hacking, malware, software security, network security, cloud security, endpoint security, application security, identity security, mobile security, digital forensics, security certification, and related topics.
Credits: Credits:1 (1,0)

CPS 201 Digital Security
The course will examine the security threats to digital information, computer systems and networks. Students will learn about the principles of confidentiality, integrity, and availability of information and how these principles are preserved in digital systems. Topics will include risk assessment, security awareness, security policy, security auditing, and legal and ethical aspects. The course will prepare the students with background knowledge in cryptography, biometrics, software security, and network security. Prerequisite(s): SST 115
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

CPS 203 Data Security & Privacy
This course will introduce the students to cybersecurity laws and policies regarding data breaches throughout different organizations. The course will cover topics that will include risk assessment, post-incident review, access control, information security governance, and data loss prevention. Students will undergo activities to analyze risk domains and follow regulatory compliances to protect the privacy and security of data within an organization. Prerequisite(s): CPS 201
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

CPS 205 Digital Signal & Image Processing
This course will examine the fundamental concepts of digital signals and image in relation to security applications. Topics will include signal and image characteristics, acquisition, quantization, filtering, enhancement, spectral analyses, feature extraction, segmentation, and morphological transformation. Students will be trained on algorithm and mathematical tools, and practical applications of Digital Signal and Image Processing techniques. The course will also examine the digital video and its applications to security field. Prerequisite(s): CPS 201
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 235 Fundamentals of AI in Cybersec
Artificial Intelligence (AI) is applied in a variety of cybersecurity frameworks that include intrusion detection systems, network security design, firewall responses, SQL injection detection, and threat intelligence computations. This course introduces students to the fundamental theoretical and practical concepts in AI with the emphasis on Machine Learning (ML), and forensics and systems security principles by using Python software for practical purposes. A brief theoretical coverage of the machine learning concepts is accompanied by practical cybersecurity applications of the theory with case studies and experts applications in the field by using AI in cybersecurity; The content coverage will be centralized towards applications in cybersecurity focusing on database threats, inference risks, threat handling in network systems' security by using AI techniques such as intrusion detection identification and prevention, and using ML concepts for detecting and analyzing data driven cybersecurity anomalies. Prerequisite(s): BCS 109 or BCS 120 or CSC 111
Credits: Credits:3 (3,0)

CPS 301 Biometric Recognition
This course will examine the concepts of automated human recognition with anatomical biometrics and behavioral biometrics. It focuses on biometric system design, biometric image and signal processing, biometric sensor technology, and anti-spoofing technology. Students will learn how each biometric works, how to process non-ideal biometric signals and images, and how to choose the right biometrics for different applications. The course also covers the security and privacy issue of biometrics. Prerequisite(s): CPS 205 or CPS 203
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 303 Operating System & Security
This course presents the state of the art of OS security to students. It covers OS-level mechanisms, and how they relate to mitigating and defending against malware attacks on computer systems, such as buffer overflow, remote access Trojan, self-propagating worms, large-scale botnets, etc. Basic OS security techniques such as logging, system call auditing, address space randomization, memory protection, virtual machine introspection (VMI) will be discussed. Other techniques, such as host-based intrusion and detection, system randomization, vulnerability fingerprinting, and virtualization, will also be introduced. Prerequisite(s): CPS 201
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 305 Foundations of Cryptography
This course explores discrete mathematics and elementary number theory, with an emphasis on the mathematical principles underlying encryption and cryptanalysis. It covers the basic discrete structures, inductions and recursions, combinatorics, and discrete probability. It introduces algebraic structures such as group and field, and covers fundamental algorithms in modular arithmetic and integer arithmetic. Upon successful completion, students will have a solid foundation to learn a variety of cryptographic algorithms. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 320 Malware Detection and Defense
This course will teach students the core concepts needed to analyze unknown source codes. Students will learn different exploits and how they work on an infrastructure and system's level. Topics will include control flow graphs, obfuscation techniques and common assembly language attack patterns. Students will be trained on the techniques of common malware characteristics and signatures in order to perform both static and dynamic analyses of unknown binaries. Prerequisite(s): CPS 201 or SST 312
Credits: Credits:3 (3,0)

CPS 325 Vulnerability Analysis
This course teaches students the principles of vulnerability analysis and software code auditing. It examines different types of threats and vulnerabilities that are inherent in software and that you might find in codebases. This course will also cover the origins of these attacks and how they have gained in popularity over the past years and how we can mitigate them in today's application lifecycle. Students will be trained to utilize the concepts of buffer overflows, integer security and format strings to evaluate software/data integrity failures. Prerequisite(s): CPS 201
Credits: Credits:3 (3,0)

CPS 335 Advanced AI in Cybersecurity
Applications within cybersecurity include advanced knowledge techniques in Machine Learning (ML) as a part of Artificial Intelligence (AI). This course furthermore advances students to theoretical and practical conceptual knowledge of ML techniques by employing Python programming for practical purposes with the emphasis given to forensics and systems' security principles. Theoretical coverage of the ML concepts for classification and forecasting purposes include SVM, Decision Trees, Random Forest, and KNN with their real-life application explanations by experts in the professional field. The content coverage is centered around supervised and unsupervised ML applications in cybersecurity focusing on database threats, inference risks, threat handling in network systems' security by using artificial intelligence techniques such as intrusion detection identification and prevention, and using machine learning for detecting and analyzing data driven cybersecurity anomalies. Prerequisite(s): CPS 235 with a grade of C- or higher Credit(s): 3
Credits: Credits:3 (3,0)

CPS 390 Web Application Security
The amount of data that we entrust to web applications is increasing significantly and therefore, the defenders need to learn how to properly secure web applications from attackers. This course will go through the Open Web Application Security Project (OWASP) top 10 risks, which will properly train a student how to better understand web application vulnerabilities and ensure that they can properly defend an organization's web assets. It will also cover the programming, architecture and strategies as applied to devising a real-world web application. Prerequisite(s): CPS 303
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 401 Applied Cryptography
This course examines the inner workings of modern symmetric and public-key cryptosystems and algorithms, including DES, AES, MD5, SHA-1/2/3, RSA, multi-party computation, and elliptic curve cryptography (ECC), and the constructions of Message Authentication Code (MAC) and Digital Signature (DS). It examines the privacy applications of cryptography supporting anonymous credentials and private database lookup. Lattice-based cryptography will also be examined. Prerequisite(s): CPS 305
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 405 Senior Project
This course integrates and applies the knowledge and skills acquired throughout the Computer Security Technology program in a comprehensive Senior Project conducted under the supervision of a faculty member. Students will identify, design, and implement a cybersecurity-related project addressing real-world challenges in areas such as network defense, system security, data protection, or ethical hacking. Emphasis is placed on critical thinking, problem-solving, technical documentation, and professional communication. Students will prepare detailed written reports and oral presentations demonstrating technical competence, analytical reasoning, and ethical awareness in cybersecurity practices. Note: Students cannot get credit for CPS 405 and 405W; CPS 405W can be used to fulfill the writing intensive requirement. Prerequisite(s): CPS 401 with a grade of D or higher and EGL 102 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

CPS 460 Network Security
This course will examine the security threats to computer networks and techniques to secure network. Topics will include network components and protocols, access control, firewall, honeypot, intrusion detection, virtual private network, vulnerability assessment, malware propagation, denial of service attacks, investigation of network data, and security protocols. At the conclusion of the course, students will have a full understanding of security design, network monitoring, and response to network attacks. Prerequisite(s): CPS 303
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 461 Ethical Hacking
This course will cover a broad base of topics in ethical hacking, network defense, and offensive security. It aims to immerse students into an interactive environment where they will learn how to scan, test, and secure information systems. Students will gain in-depth knowledge and practical experience with network systems. By gaining a thorough understanding of how hackers operate, a student will be able to set up strong countermeasures and defensive systems to protect an organization's

critical infrastructure and data. The students will discuss the various legal issues associated with the pen-testing and ethical hacking. Prerequisite(s): CPS 460
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 462 Smart Grid Security
The course examines the fundamentals of smart power grid and the necessary background in computer security. It covers both cyber security and physical security across operational aspects of smart grid and discusses a variety of secure solutions to the smart grid, including identity management and access control, threat defense, datacenter security, WAN security, security monitoring and management, physical safety and security, generation plant security, substation security, and utility regulatory compliance. Prerequisite(s): CPS 460
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 463 Distributed Systems & Security
This course explores the design and implementation of secure distributed systems. The main goal focuses on the techniques for creating functional, usable, scalable, and high-performance distributed systems with security as a built-in factor. It covers the principles and techniques behind the design of distributed systems, such as locking, concurrency, scheduling, remote procedure call and transparency, distributed shared memory, update conflicts, and the security components, such as cryptographic primitives, user authentication, secure-socket layer, imperfect communication and other types of failure, software vulnerabilities and exploits, intrusion detection and prevention. Other topics may be covered including cluster-based IP Router, Onion routing, Distributed systems at Data Center, Cloud computing and Google File System. Prerequisite(s): CPS 303 and CPS 401
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 464 Cloud Security
This course will provide an in-depth analysis into different cloud security issues and how they can be mitigated and contained using distributed services. Topics will include: scalability and computing power of cloud, information security and forensics, risk management, disaster recovery, countermeasures to malicious attacks, auditing and compliance. Students will be able to develop necessary skills in order to provide a reliable and secure cloud service. Prerequisite(s): CPS 460
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CPS 491 Computer Security Internship
The internship course is designed to provide the students with the opportunity to earn technical elective credits by acquiring hands-on industry experience in the computer security field. A student will work in a computer security related role at an organization in consultation with a Faculty advisor. The student will maintain a log of their work at the organization signed by the supervisor. In addition, weekly journal entries will be enforced to summarize the work experience. Finally, the student will need to write two reflective essays about the internship experience. Prerequisite(s): Approval of department chair
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRIMINAL JUSTICE (CRJ)

CRJ 100 Introduction to Criminal Justice
In this introductory course, the roots of the criminal justice system will be explored, along with the specific processes of law enforcement, the courts, and corrections. The understanding of Supreme Court cases will be connected to these areas of the system. Further understanding will be developed in areas of theory, crime elements and crime trends. Current issues in the criminal justice system will also be discussed.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 101 Law Enforcement and Community Relations
This course considers the functions of law enforcement in modern society. Emphasis will be placed on the numerous and complex factors involved in the areas of human relations, including culture and environment. The intricacies of communication, perception, and body language will be a connector to the examination of bias, prejudice and discrimination. Documented law enforcement and community interactions will be examined in relationship to agency policy, the courts and public sentiment.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 102 Juvenile Delinquency and Justice
This course discusses this unique population through theory and the processes of the courts and juvenile justice systems. Juveniles represent a special population within the justice system, with differences in explanations of delinquency and treatment. Methods of rehabilitation and sanctioning will be explored, along with assessment, screening, and referral procedures. The policies and laws that frame the treatment of juveniles will further students' understanding of system behavior.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 105 Corrections in America
This course will discuss the history of the US correctional systems as a series of penal reforms. It will also explore the theoretical principles and critiques that direct and influence correctional policies and practices, past and present. In addition, it will investigate the populations and operations of various correctional institutions and programs: inmates and offices, jails, prisons, and community forms of correction. It will further assess the problems and challenges of current correctional practices: aging populations, mental illness, and HIV/AIDS. Moreover, it will consider the future of corrections in the context of what has been called "a culture of control".
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 109 Cannabis & Criminal Justice Law & Policy
This course considers the historical and social context of cannabis policy and State and Federal laws. Emphasis will be placed the numerous social justice issues surrounding cannabis laws, including the intersection of race, ethnicity, and socio-economic status and the disproportionate impact of policy and legislation. These themes will be connected to the current legalization of cannabis and the ongoing impact on individuals, communities and the justice system. The overarching themes of this course are law enforcement, sentencing guidelines, incarceration, and community supervision.
Credits: Credits:3 (3,0)

CRJ 120 Introduction to Lie Detection
This course will explore the concept of lie detection. It examines the science of detecting deceptive behavior, and focuses on how to interpret truthful versus untruthful criminal behavior, including the verbal and non-verbal signals which allow law enforcement and private security professionals to identify wrongdoing during a criminal investigation. It introduces background screening techniques, as well as interview and interrogation techniques, featuring the Reid Method, as well as state of the art technology used to detect untruthfulness. Various techniques for visual and audible identification within this concept will be examined, including voice stress analysis and facial and bodily recognition.
Credits: Credits:3 (3,0)

CRJ 200 Criminal Investigation
Introduction to criminal investigation, technical methods used at the crime scene; development of clues, identification of suspects; criminal investigation procedures including the theory of an investigation; conduct at crime scenes; collection and preservation of physical evidence, analysis of the elements that constitute all crimes. Note: The course may be offered as a writing intensive course at the discretion of the Criminal Justice Department. Students cannot get credit for both CRJ 200 and CRJ 200W. Prerequisite(s): CRJ 100
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 203 Criminology
This course introduces anthropological, biological, economic, ecological, philosophical, psychiatric, and sociological theories of criminal behavior. The functions of punishment and methods of crime reduction will be connected to theoretical concepts. Crime trends and patterns will be explored through the examination of Uniform Crime Reports, the National Crime Victimization Survey, and local sources. Prerequisite(s): CRJ 100
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 205 Criminal Procedure Law
The course introduces students to the criminal law system and its function within the criminal justice system, specifically through the discussion of New York State Penal Law. The course will examine offense types and degrees, as well as the elements of specified offenses, with reference to principal rules of criminal liability. Students will employ the case analysis method to study case precedents, as well as the rules of evidence, operation, and policy that make up criminal procedure. Emphasis will be placed on New York Criminal Procedure Law and its rules regarding arrest, force, and search and seizure.
Prerequisite(s): CRJ 100
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 211 Law Enforcement Administration
The course reviews the principles of organization and management within law enforcement and public safety. This includes an analysis of the major problems in police organization and administration. In addition, the development, maintenance, and utilization of complex information systems for tracking crime trends and managing internal organizational operations are studied. Also covered are the use of management control systems and various computer information analysis and simulation tools to enhance police patrol planning and evaluation. Moreover, the role of technology is examined in relation to furthering law enforcement's efforts in crime prevention. Prerequisite(s): CRJ 100 and CRJ 101, all with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 245 Logic and Reasoning in Criminal Justice
This interactive, skills-based course introduces students to the foundational principles of logic and reasoning as they apply to criminal justice. Through a mix of engaging lectures and hands-on activities, students will develop the ability to critically assess arguments, identify logical fallacies, interpret evidence patterns, and construct sound conclusions. The course integrates classic logic instruction with applied exercises including symbolic logic, crime scene reasoning, LSAT-style puzzles, legal reasoning structures, and logic-based case building. Special emphasis is placed on real-world applications such as courtroom reasoning, crime trend analysis, and strategic decision-making under pressure--essential skills for aspiring investigators, analysts, and justice professionals.
Credits: Credits:3 (3,0)

CRJ 300 Forensic Psychology
This course introduces the student to the study of forensic psychology, a discipline that applies psychology to the law and the criminal justice system. Topics to be covered include: the psychologist's role in the criminal courts, ethical dilemmas of psychologists working in the criminal justice system, psychological perspectives on the nature of criminality and the investigation of crime, criminal profiling, the effects of psychological empirical research on the outcome of criminal trials, and the psychology of the police, witnesses, offenders, and victims. Other new research topics in the field, such as the use of brain fingerprinting technology to determine criminal culpability will also be explored. Students completing this course cannot receive credit for PSY 300. Prerequisite(s): CRJ 100 or PSY 101
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 301 Criminalistics
This course will address the role of forensic science in investigations in the broader criminal justice system. Students will learn about the scientific methods employed by forensic scientists including observation, hypothesis development, analysis and evaluation, and analytical reasoning in order to understand crime scene investigation, trace detection and analysis, and event reconstruction as scientific endeavors. Students will address both technical, scientific, and legal aspects of forensic investigations and learn about the structure, organization and function of the crime laboratory as well as the analytical methods that are routinely employed to analyze various types of traces in crime laboratories. NOTE: Students cannot earn credit for previously taken CRJ 201 and CRJ 301 Prerequisite(s): CRJ 100 and CRJ 200 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 307 Criminal Justice Data Base Operations
The course introduces students to the meaning and structure of criminal justice data, the design of and security for criminal, legal and classified databases, the management of competing information security and confidentiality concerns, and the rights to access criminal justice records on the part of the public, corporate interests and the media. The course examines criminal justice data collection throughout the legal lifecycle (complaint, arrest, prosecution, court, corrections, probation and parole); understanding all through the prism of authenticity, value, timeliness, accountability, integration and prevention. Prerequisite(s): SST 115
Corequisite(s): CRJ 307L
Credits: Credits:4 (3,2)

CRJ 309 Crime, Justice and the Media
This course focuses on the intersection of criminality, the justice system, and the media. Through old and new forms of media this course will explore the ways in which the media is a contributing factor to criminal behavior and an influence on public perceptions of criminality, offenders, and victims. This course will also investigate how the media plays a role in functions of the criminal justice system, is used as a tool for solving crimes, and intersects with criminal justice policy. Prerequisite(s): CRJ 100 and CRJ 203
Credits: Credits:3 (3,0)

CRJ 316 Victimology
This course provides an understanding of the impact of crimes on victims, which is an important part of the dynamics within the criminal justice system. The significance of harm, harm reduction, criminal offending, and criminal justice system justice operations are essential in the understanding of victimization. Topics covered may include criminological theories of victimization, routine activity and situational crime perspectives, legal constructs, and forms of victimization as they relate to public safety. Measurement of crime and prevention strategies will be incorporated.
Prerequisite(s): CRJ 203
Credits: Credits:3 (3,0)

CRJ 325 Fraud Examination
This course covers the field of Fraud Examination and the principles underlying its prevention and detection. The course will examine the historical origins of fraud, the commission of fraud, and how fraud may be detected and deterred. The course will include multiple-case study integration for data analysis. The purpose of this course is to give practical guidance within the area of examining fraud to enhance the student's ability to recognize, identify, and prevent financial deceptions in governmental, public, or private organizations. Prerequisite(s): CRJ 200 with a grade of C or higher.
Credits: Credits:3 (3,0)

CRJ 345 Intelligent Systems in Criminal Justice
This course adapts the understanding of artificial intelligence to advance criminal justice procedures and processes using Natural Language prompting strategies. The course uses AI tools to explore analyzing evidence, improving problem-solving outcomes, extracting intelligence, streamlining administrative reports, augmenting critical thinking skills, and human judgment decisions. The course combines legal, technical, and investigative knowledge to provide an understanding of the potential and limitations of AI tools in real-world criminal justice environments. The course will conclude with the final project that demonstrates the ethical and proficient application of AI principles and prompting in the research of a contemporary issue challenging law enforcement, the courts or corrections.
Prerequisite(s): CRJ 245 with a grade of C or higher
Credits: Credits:3 (3,0)

CRJ 350 Courts and the Judiciary
In this course, students will analyze the administration of justice in the United States. Topics include common and statutory law, the policy of stare decisis, constitutional law, due process, court administration, the exclusionary rule, courtroom procedure (the role of the police, prosecutor, defense counsel, judge, grand jury, trial jury), federal courts (federal criminal law, judges, attorney generals, U.S. marshals, and the judicial districts), state courts (types and jurisdiction, relationship to federal courts), and the U.S. Supreme Court (constitutional law, justices, and appellate jurisdiction).
Prerequisite(s): CRJ 205 with a grade of C- or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 354 Police Leadership
This course addresses a wide-range of ethical leadership skills that are applicable to all police ranks. In addition to incident-driven techniques; the course also embraces problem-oriented intelligence-led policing and integrates both ethics, and leadership concepts. Unethical conduct such as abuse of discretion, use of excessive force, discriminatory practices,

uncivil conduct, abuse of power, and dishonesty are examined. This course includes development of essential ethical leadership competencies.
Prerequisite(s): CRJ 211
Credits: Credits:3 (3,0)

CRJ 355 Mental Health & Criminal Justice
This course focuses on the intersection of mental illness and various aspects of the criminal justice system. Individuals with mental illnesses are disproportionately represented in the criminal justice system, and there is an extensive history of treatment issues regarding the mentally ill in the system. Additionally, professionals working in the criminal justice field also experience a variety of mental health impacts. This course will explore the prevalence of mental illness amongst offenders as well as criminal justice practitioners. In addition to a focus on the adult system, attention will also be paid to mental illness in the juvenile justice system. The course will examine mental health in each of the main components of the system including police, courts, and corrections. Specific topics that will be examined in this course include, but are not limited to, the criminalization of the mentally ill, competency to stand trial, law enforcement responses, treatment of mental illness in prisons and jails, and effects of secondary trauma of criminal justice practitioners. Prerequisite(s): CRJ 100, PSY 315
Credits: Credits:3 (3,0)

CRJ 360 Probation and Parole
This course will explore the history and philosophy of probation and parole in the United States, with an emphasis on the systems of New York State. Topics include an examination of the nature, characteristics, and scope of parole and probation operations, as well as the impact of supervision and alternatives to incarceration on the function of the criminal justice system. Students will assess treatment, rehabilitation, deterrence, and retribution functions and will explore sentencing models. Prerequisite(s): CRJ 105 and Junior level status
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 365 Alternative Court Programs in Society
This course explores the historical roots of alternative court programs, why they were created, how they are effective. It will help students understand methodologies to design programs for the benefit of individuals with special needs and how addressing core causes for criminality is a valid approach to recidivism. The course will review programs on the state and federal level and studies done to determine their effectiveness. The course will also educate students as to court process, the use of alternatives to incarceration and supervision and how to effectively approach community problems with a view toward "breaking the cycle" of recidivism for individuals and their families and communities. It will also help students understand restorative justice and mentoring within the court system.
Prerequisite(s): CRJ 203
Credits: Credits:3 (3,0)

CRJ 370 Patrol Operations
This course focuses on the policies and procedures related to the function of police patrols, including communication issues and community relations. Topics include law enforcement philosophies and theories, community policing, the importance of written and verbal communication in the patrol process, ethical considerations, officer safety, and criminal investigation.
Prerequisite(s): CRJ 200
Credits: Credits:3 (3,0)

CRJ 374 Intelligence Operations
This course prepares students to analyze a wide range of data in crime investigations, and includes training in software that is used in the field. Students will apply basic analytical techniques and intelligence training. Topics include sources of information, the information process, general research methods, critical thinking, statistical approaches, crime analysis, data association, inference development, information flow and classification, and telephone and financial analysis. In-class exercises will support additional applied learning topics. Prerequisite(s): CRJ 200/W with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 375 School Crime & Safety
This course focuses on the importance of evidence-based policies, programs, and practices to prevent and reduce school crime and enhance the school climate. Students will assess the prevalence of school crime, examine theoretical explanations for school crime, evaluate the role of school-level factors, and investigate social disturbances that impact school climate such as bullying. Students will also examine the effectiveness of various school crime prevention policies and practices including, but not limited to, zero tolerance policies, the deployment of police in schools, threat assessments, bullying prevention, and restorative justice.
Prerequisite(s): CRJ 203 Credit(s): 3
Credits: Credits:3 (3,0)

CRJ 380 Homeland Security and Counterterrorism
This course provides an in-depth study of the issues leading to terrorist activities and the multiple approaches to dealing with terrorism in the context of homeland security. Students will examine the fundamental issues behind terrorism and the current responses to this threat. Topics will include the various modes of terrorism, the psychology of terrorism and prominent terrorist groups. In addition, students will evaluate international measures to curb terrorism, and explore the role of police, public and civil sectors, business and media interests in countering terrorist activities, as well as emerging trends in terrorism. Prerequisite(s): CRJ 211
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 385 Criminal Justice Research Methods
This course will provide students with the fundamental knowledge and skills to seek answers to important research questions in the field of criminal justice. Students will learn how to identify gaps in the literature and formulate research questions and hypotheses. Additionally, students will learn about operationalizing variables, measurement, sampling, data collection, research ethics and causality in criminal justice. Further, this course will focus on several quantitative and qualitative research designs and methods. In this course, students will also learn how to translate key research findings to practitioner audiences and develop policy implications.
Prerequisite(s): Junior Level Status in Criminal Justice
Credits: Credits:3 (3,0)

CRJ 390 Organized Crime
This course explores the historical roots of organized crime and it's from a national and international perspective. The examination will include criminal activities, methods of organization, and economic factors, as well as the correlations that explain the criminal behavior. In depth analysis will be on causal factors, causal factors, activities, organization and economics of organized crime. The development of preventative strategies will also be considered. Prerequisite(s): CRJ 203
Credits: Credits:3 (3,0)

CRJ 393 Environmental Crime
This course explores the multifaceted dimensions of environmental crime, examining offenses against the environment, their impact on society, and the legal responses to these transgressions. Students will gain an in depth understanding of the complexities surrounding environmental crimes, including poaching, pollution, illegal logging, wildlife trafficking, and other offenses. The course will also analyze the global, national, and local frameworks that govern environmental crime, emphasizing the role of law enforcement, regulatory agencies, and international organizations in addressing these issues. Through case studies and discussions, students will critically assess the effectiveness of current strategies and propose innovative solutions for preventing and combating environmental crime.
Prerequisite(s): CRJ 203 with a grade of C or higher
Credits: Credits:3 (3,0)

CRJ 395 Gangs in the U.S.
This course studies the nature and extent of gangs in the United States. Specific attention will be paid to the history of gangs and the role that social conditions play in the emergence of gangs throughout the nation. It addresses why young people join gangs and strategies to mitigate risk with gangs. The role that the community and criminal legal system play in gang suppression, intervention, and prevention are also discussed. In addition, the intersections of race, class, gender, sexual identity, and their connection to gang membership will also be critically examined. Prerequisite(s): CRJ 100
Credits: Credits:3 (3,0)

CRJ 400 Forensic Technology
This course will address a broad range of forensic technologies that are used to support criminal investigations and forensic science. The course will address, in both theory and practice, technologies used at crime scenes and within crime laboratories. Technologies include digital photography, the application of alternate light sources, crime scene searching and measurement technologies, and analytical instrumentation used both in the

field and at the laboratory (spectroscopy, chromatography, electrophoresis, etc.). The course will also address emerging technologies within forensic investigations, including those employed both at the scene and in the laboratory. NOTE: Students cannot earn credit for previously taken CRJ 308 and CRJ 400. Prerequisite(s): CRJ 301 with a grade of C or better Corequisite: CRJ 400L
Course Offered: Fall, Spring
Credits: Credits:4 (3,2)

CRJ 405 Corrections and Reentry
This course explores the important factors in the maintenance and supervision in correctional settings, as well as programs post-release. Students will assess and evaluate the current prison/jail population and extrapolate from the population of formerly incarcerated individuals. Students will examine the current programs to which inmates and supervised individuals are remanded, evaluate their effectiveness, and develop alternatives. This course will cover the constitutional amendments directly connected to corrections, with their ethical underpinnings, and examine the reintegration and supervision of individuals in the community. Prerequisite(s): CRJ 360
Credits: Credits:3 (3,0)

CRJ 406 Crime Analysis and Mapping
Students will learn how to analysis and apply sampled data distributions to crime patterns. Digital tools will allow students to identify trends and patterns in order to determine police service allocations based on collected data The science and foundation principles of geographical information systems design and operation will be reviewed. Homeland Security implications as well as publicly available geospatial information will also be covered as specific applications for mapping techniques. Prerequisite(s): CRJ 374, GIS 222T with a grade of C or higher Corequisite(s): CRJ 406L
Course Offered: Fall, Spring
Credits: Credits:4 (3,2)

CRJ 407 Crime Prevention Systems
This course will introduce the student to the theory and practice of crime prevention and examine topics such as the relationship of the built environment to crime, designing out crime, threat assessment, target hardening, and the like. The course will also focus on residential and commercial crime prevention systems. In addition, an analysis of false alarms from the perspective of the environment, end-user errors, and equipment malfunctions will be conducted. The course concludes with a review of police studies that have examined the nature and extent of the false alarm problem as well as the laws that regulate the use of crime prevention systems by public and private agencies. Prerequisite(s): Senior Level Status in CRJ Corequisite(s): CRJ 407L
Course Offered: Fall, Spring
Credits: Credits:4 (3,2)

CRJ 410 Senior Project
In this capstone course, the student will prepare a substantial research paper (approximately 6,000-8,000 word count) based on a criminal justice related topic agreed upon with the course instructor. Initial stages of the research will include topic selection, development of a proposal, preparation of an outline, and a comprehensive literature review through the identification of relevant resources and the drafting of an annotated bibliography. The student will ultimately develop a final paper consisting of a title page, table of contents, abstract, paper body (introduction, literature review, results (data analysis) discussion, and conclusions) and references section. Note: Students cannot earn credit for CRJ 410W and CRJ 460W. CRJ 410W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 102 and CRJ 385 with a grade of C or higher, and Senior Status within a Criminal Justice B.S. program.
Course Offered: Fall, Spring
Credits: Credits:3 (1,0,6)

CRJ 425 Policy and Program Evaluation
This course examines policies and programs in the field of criminal justice through the lens of the evaluation hierarchy. Policies and programming efforts are central components of the criminal justice system, and the field is moving towards prioritizing evidence-based practices. The purpose of this course is to explore key ways to evaluate policies and programs. Specifically, students will learn about the importance of assessing the need for interventions, identifying the theoretical mechanisms for how policies and programs should achieve their goals, monitoring the implementation fidelity of policies· and programs, analyzing the effectiveness of the interventions, and conducting cost-efficiency evaluations. Policies and practices from each component of the criminal justice system - police, courts, and corrections will be evaluated. Prerequisite(s): CRJ 385 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 430 Forensic DNA Analysis
This course will introduce the student to techniques of human identification, including current methods of forensic DNA analysis methods employed in crime laboratories. Students will learn about the history and deployment of body fluid detection, identification and examination (serology); the detection, collection, preservation of different types of biological samples from the crime scene and various substrates; DNA structure and function; DNA analysis, including extraction, quantitation, typing and utilization of DNA databases. The course will also include subject matter dealing with degraded DNA, DNA mixtures, DNA interpretation, forensic genetic genealogy, and the analysis of non-human DNA. Current and emerging technologies and analytical methods will be presented. The course will be supplemented with case studies, including trends in cold cases and wrongful convictions. Prerequisite(s): CRJ 301 with a grade of C or higher
Credits: Credits:3 (3,0)

CRJ 441 Environmental Law
This course provides an advanced study of environmental law, with a specific focus on its application within the criminal justice system. It will cover the major US environmental laws, international frameworks, and their enforcement through criminal prosecution. The course will utilize open-source materials, including government documents, case law, and journal articles, to explore how these laws are applied in criminal cases. Students will also analyze case studies that illustrate the prosecution of environmental crimes, such as pollution, wildlife trafficking, and illegal resource exploitation. Prerequisite(s): CRJ 393
Credits: Credits:3 (3,0)

CRJ 442 Wildlife Crime Investigation
This course will utilize key principles from criminal investigations, criminalistics, and environmental crime to understand wildlife crime investigations. The course will focus on the detection and forensic investigation of criminal activities within the sphere of wildlife crimes; wildlife crime scene investigations; and the laws and treatises in place to seek justice for wildlife crimes. Prerequisite(s): CRJ 301 with a grade of C or higher
Credits: Credits:3 (3,0)

CRJ 444 Intelligence Analysis
This course explores data-driven analysis of crime and intelligence as an effective method for solving and controlling crime. The course addresses a law enforcement officer's ability to use logic, deductive reasoning, and proven scientific methods to save investigative hours and increase the credibility of investigation. Students will address a wide variety of domestic, regional and transnational intelligence issues. Additionally, students will apply fundamental knowledge of the threat environment facing the intelligence community. Prerequisite(s): CRJ 374
Course Offered: Fall, Spring
Credits: Credits:4 (4,0)

CRJ 445 Intelligent Systems Integration & Oversight
This course will address the implementation and oversight of intelligence systems in the criminal justice domain, including law enforcement, criminal courts and corrections. Building on the utilization of logic and reasoning as well as the fundamentals of applied intelligence systems, students will consider the use and oversight of new and emerging technologies to multifaceted criminal justice problems. Students will consider the role of intelligence systems in matters such as complex criminal investigations, crime analysis and mitigation, and intelligence efforts from both practitioner and administrator perspectives. This course will also address policy development, risk management, emerging legal concerns, in the future applications of current and emerging technology. Prerequisite(s): CRJ 345 with a grade of C or higher
Credits: Credits:3 (3,0)

CRJ 450 Privacy and Equality
This course will focus on the development of civil rights and liberties under the Bill of Rights, the Fourteenth Amendment, and legislative enactments. Students will examine the legal authority for privacy and equality in our governmental system. Topics will include individual liberties, freedom of expression, freedom of religion, due process, the right to privacy, equal

treatment and equal protection under the law, and civil liberties in the criminal justice system. Prerequisite(s): CRJ 350
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 454 Ethics and Leadership in Criminal Justice
This course provides an understanding of the role of integrity in leadership roles throughout the criminal justice system. Students will explore leadership and ethics as applied to police, courts and corrections, with particular emphasis on organizational culture. Students will trace the historical path of leadership and ethics, and the development of current practices. Topics will include solidarity, influence, power and authority, discretion, and communication. Prerequisite(s): CRJ 211, Senior Level Status
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 455 Social Network Analysis in Criminal Justice
This upper-level seminar introduces students to social network analysis (SNA) as a conceptual and applied framework for understanding relationships among offenders, organizations, and institutions in criminal justice systems. Students will examine how social, criminal, and informational networks influence patterns of crime, intelligence operations, and enforcement responses. Emphasis is placed on theory, interpretation, and policy application of network analysis within real-world criminal contexts. Prerequisite(s): CRJ 374 with a grade of C or higher Credit(s): 3
Credits: Credits:3 (3,0)

CRJ 458 Criminal Justice Internship
This upper-level course provides junior and senior level students with the opportunity to engage in practical experience across criminal justice agencies. Internships may take place at local, state, or federal agencies as well as at relevant non-profits or private organizations. During their internships, students are expected to engage in fieldwork and/or research, apply theoretical knowledge in real-world settings, and provide detailed reports of their activities and reflections to the criminal justice department internship coordinator, along with the completion of required assignments. The course is designed to enhance students' understanding of criminal justice practices and prepare them for professional careers in the field. All internships must be approved by the internship coordinator. Prerequisite(s): Junior or Senior Status in the Criminal Justice Program
Credits: Credits:3 (1,0,6)

CRJ 460W Senior Project (capstone) Writing Intensive
In this capstone course, the student will prepare a substantial research project based on a criminal justice topic agreed upon with the course instructor. Initial stages of the research will include topic selection, development of a proposal, preparation of an outline, and a comprehensive literature review through the identification of relevant resources. The student will ultimately develop a final project which must be presented at a campus-wide Criminal Justice Colloquium via poster presentation or oral presentation and will be supplemented by submission of a short final paper (approximately 2,000-4,000-word count). NOTE: Students cannot earn credit for CRJ 460W and CRJ 410W. CRJ 460W can be fulfill the writing intensive requirement. Prerequisite(s): EGL 102 and CRJ 385 with a grade of C or higher, and Senior Status within a Criminal Justice B.S. program.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CRJ 488 Police Body Camera Policy and Practice
Police-worn body cameras (PWBCs) have been widely adopted by law enforcement as a potential deterrent to mitigate misconduct, reduce inaccurate complaints, and limit lawsuits filed by citizens, with the overarching goal of increasing transparency. This course examines the technology and key issues associated with the adoption, procurement, utilization, and risk management of police body cameras as a tool in modern policing. A multi-faceted learning approach is employed, including extensive analysis of PWBC case studies, group-based policy evaluation, and real-time applied learning through the use of PWBCs within the classroom environment. Prerequisite(s): CRJ 200 and CRJ 370 Credit(s): 3
Credits: Credits:3 (3,0)

CRJ 490 Topics in Criminal Justice
A study of specific applications of Criminal Justice/Security Systems, with emphasis on student participation and written assignments. Critical thinking will be developed and demonstrated through understanding and interpreting the theory and practical concepts presented. Policies and advancements in the criminal justice field will be analyzed according to their advancement of knowledge and tactics used in various types of investigations and analyses. Prerequisite(s): Contingent on selected topic, must consult with department.
Credits: Credits:3 (3,0)

COMPUTER SCIENCE (CSC)

CSC 101 Introduction to Computing
Computers have become a part of everyday life across many academic disciplines. In this course, students will acquire a broad knowledge of the computer science and information technology fields. Topics covered will include basic computer concepts, an overview of computational and algorithmic thinking, and an introduction to using computers to solve real-world problems. After completing this course, students will be prepared to apply computer concepts to other fields.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CSC 111 Computer Programming I
This is an introductory programming course. Students will be taught basic concepts of computer programming and problem solving using an object-oriented language. Selection, repetition, methods, classes, and arrays will be covered. Note: CSC 101 is recommended as a prerequisite, but not required for this course. Note: Students completing this course may not receive credit for BCS 120.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

CSC 211 Computer Programming II
This course expands upon the knowledge and skills presented in Computer Programming I. Topics covered include: stack and heap memory, exception handling, inheritance, polymorphism, recursion, abstract types, unit testing, and basic GUI programming. Note: Students completing this course may not receive credit for BCS 230 Prerequisite(s): CSC 111 OR BCS 120 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 229 Data Structures & Algorithms I
This course is the first of a two course sequence that teaches students to efficiently apply programming techniques to problems commonly encountered in application programming. Fundamental data structures, including stacks, queues, lists, and trees are discussed and implemented. Students are introduced to the asymptotic analysis of algorithms into standard equivalency classes. Emphasis is placed on good programming practices. Students are evaluated both on their theoretical knowledge as well as on their performance on a variety of programming projects. NOTE: Students completing this course may not receive credit for BCS 370. Prerequisite(s): CSC 211 or BSC 230 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 243 Computer Architecture and Organization
This course provides students with an understanding of computer architecture and organization. Topics include machine level representation of data, assembly language and its relation to machine level organization, and memory system architecture. Students will complete a variety of programming assignments in assembly language and the C programming language. Prerequisite(s): CSC 111 with a grade of C or higher.
Credits: Credits:3 (3,0)

CSC 251 Discrete Structures
The study of discrete mathematics forms the foundation for the theory and practice of computer science. This course discusses the fundamentals of logic, proofs, sets, functions, relations, recursion, recurrence relations, mathematical induction, graphs, trees, basic counting theory, regular languages, and context free grammars. Prerequisite(s): MTH 150 or MTH 130 with a grade of C or higher
Credits: Credits:4 (4,0)

CSC 311 Advanced Programming
The course expands upon the knowledge and skills presented in Computer Programming II and Data Structures and Algorithms I. Topics covered includes: graphical user interfaces and multimedia, collections, testing and documentation, streams, regular expressions, lambda expressions, concurrency, and network programming. Prerequisite(s): CSC 229 with a grade of C or higher Corequisite(s): CSC 363
Credits: Credits:3 (3,0)

CSC 321 Principles of Programming Language
Developers must understand the programming models underlying different languages to make an informed language choice when initiating a project. In this course, students will learn about the major programming language design paradigms and the strengths and weaknesses of the languages that follow them. This course also provides an introduction to the concepts behind compilers and runtime representations of programming languages. Topics covered may include the procedural, functional, logical, object-oriented, and visual programming paradigms. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 322 Computational Game Theory
This course introduces students to game theory fundamentals and their computational implementations. Students will explore strategic decision-making, equilibrium concepts, and algorithmic game theory through theoretical analysis and practical programming assignments. The course integrates and explores contemporary research topics in the field with hands-on projects. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 325 Software Engineering
This course discusses the fundamental knowledge of software engineering methods and supporting tools in the context of modern software development. This course takes a close look at the various phases of software projects: definition, design, development, .delivery, management, and maintenance. The modern methodologies used in each of these phases will be explored, as well as their integration into successful projects. Students will learn through individual and team projects how to use version control systems and apply the principles of V software quality assurance. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 327 Principles of Game Development
This course is the first in a two-course sequence that provides an immersive introduction to Game Development, focusing on basic programming languages essential for game creation, understanding game engines, and designing fundamental 2D and 3D games. Students will explore game mechanics, gameplay elements, and interactive experiences. The course also delves into the development of mobile games, ensuring a well-rounded understanding of game development across various platforms. By the end of this course, students will have acquired the foundational skills and knowledge to embark on their journey into developing more advanced games and applications. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 329 Data Structures and Algorithms II
This course is the second of a two course sequence that teaches students to efficiently apply programming techniques to problems commonly encountered in application programming. More complex data structures, including balanced trees, graphs, maps, and heaps are introduced. Students are taught to analyze and classify more complex iterative and recursive algorithms into the standard Big-O equivalency classes. Emphasis is placed on good programming practice. Students are evaluated both on their theoretical knowledge as well as on their performance on a variety of programming projects. NOTE: Students completing this course may not receive credit for BCS 340. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 332 Computer Networking
This course focuses on understanding how computer networks behave and the key principles of their organization and operation. Topics include layering, encapsulation, multiplexing, packet switching, principles of reliable data delivery, principles and mechanisms for congestion control, resource allocation, address translation, and other networks-related topics. Students will program and experiment with computer networks using specialized tools. Students completing this course may not receive credit for BCS 208. Prerequisite(s): CSC 211 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 343 Operating Systems
This course studies the design and implementation of computer operating systems. Topics covered include operating systems, principles, processes, CPU scheduling, concurrency, memory management, file systems, protection and security. Prerequisite(s): CSC 229 and CSC 243 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 348 Elements of Quantum Computing
This course will introduce students to the foundations of quantum computing. Starting with an introduction to the necessary linear algebra fundamentals and notation, the course will cover quantum algorithms such as: Deutsch's Algorithm, the Deutsch-Jozsa Algorithm, Simon's Periodicity Algorithm, Grover's Search Algorithm, and Shor's Factoring Algorithm. The course will expose students to entanglement, quantum teleportation, quantum development kits, and other current research topics. Students will also program simulated quantum computers. Prerequisite(s): CSC 211 and MTH 245 with a grade of C or higher.
Credits: Credits:3 (3,0)

CSC 351 Human Computer Interaction
Human-Computer Interaction (HCI) focuses on how to design computer interfaces so humans can interact with them naturally. HCI has expanded rapidly and steadily for the last three decades, attracting professionals from many other disciplines and incorporating diverse concepts and approaches. Topics covered include new interaction styles, materials design, intelligent user interfaces and prototyping, design and perception, date visualization, human factors, multimedia, speech, and other related areas. Students will design a user interface, program a prototype, and test the result for usability. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 363 Data Management
This course focuses on the study of data and its storage with an emphasis on relational database technology and exposure to NoSQL. Students will learn the entire process of database development from data gathering to querying a fully normalized relational database. Prerequisite(s): CSC 211 or BCS 230 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 366 Principles of Data Science
Data science is a dynamic and fast-growing field that uses scientific methods to extract knowledge and insights from data. The course will survey the foundational topics in data science, including data collection, integration, exploratory data analysis, data visualization and effective data communication. Prerequisite(s): CSC 229 or (BCS 109 and CSC 211 and Junior Level Standing) with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 371 Mobile Application Development I
This course offers an introduction to mobile application development, covering techniques for designing the user interface. It includes discussions on the mobile application lifecycle, resources, material design, interaction, and managing limited resources like battery and memory. Students will gain hands-on experience using mobile application development platforms such as Android Studio. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 372 Foundations of Theoretical Computer Science
Computer science theory has implications both for what problems programmers choose to solve and for how they solve them. This course introduces students who are familiar with the craft of programming to the underlying theory. Topics discussed include selections from automata theory, computability theory, and complexity theory. Prerequisite(s): (BCS 230 or CSC 211) and (MTH 130 or MTH 150) with a grade of C or higher and Junior Status
Credits: Credits:3 (3,0)

CSC 375W Ethical Issues in Computing (Writing Intensive)
As technological advances continue to significantly impact the way we live and work, the critical importance of social issues and professional practice continues to increase; new computer-based products and venues pose ever more challenging problems each year. In this course, students will be introduced to the basic cultural, social, legal, and ethical issues inherent in the discipline of computer science. Through a significant written report, students will demonstrate their ability to analyze a current problem in computer science through the lens of ethics, morality, and the law. This course is a writing intensive course. Prerequisite(s): CSC 211 and EGL 101 both with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 411 Secure Programming
This course teaches the essentials of developing secure software in accordance with the most current industry standards. It is designed to give students practical experience using security principles and techniques. Students will engage in significant programming real-world projects where they design, analyze, implement and test practical codes. Topics covered include: secure designs, risk analysis, threat modeling, defensive coding, penetration testing, fuzzing, static analysis, and security assessment. Prerequisite(s): CSC 311 and CSC 325 with a grade of C or higher.
Credits: Credits:3 (3,0)

CSC 421 Mobile Application Development II
This course covers advanced topics in mobile app development, focusing on cross-platform techniques. Topics include integrating cloud services for data storage and real-time updates, improving app scalability and collaboration, performance, leveraging device sensors for context-aware applications, and implementing responsive functions. This course discusses design principles for custom animations, dynamic layouts, and adaptive UIs for consistent user experiences on various devices. The course also provides insights into efficient app deployment such as Google and iOS app stores using cross-platform tools and frameworks. Prerequisite(s): CSC 371 with a C or higher.
Credits: Credits:3 (3,0)

CSC 425 Advanced Software Development
This course is an advanced software engineering class with focus on modern systems. This course discusses the verification and maintenance of large software systems; advanced software development techniques and large project management approaches; project planning, scheduling, resource management, accounting, configuration control, and documentation. Prerequisite(s); CSC 325 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 427 Game Programming
The course covers the theoretical and practical foundations of video game development using the modern game engines. Students will learn the following: to develop a game concept; prototype, test, and iterate on their ideas; and navigate licensing, marketing, and other considerations This course builds a solid foundation for industry roles as a gameplay designer, technical designer, or programmer. This course discusses current techniques such as Mixed Reality and Navigation with Artificial Intelligence. Students will receive hands-on experience with several practical projects. Prerequisite(s): CSC 327 with a grade of C or higher.
Credits: Credits:3 (3,0)

CSC 429 Advanced Data Structures and Algorithms
Efficient storage and access of data is essential for the fast solutions of complex computational problems. In this course students will be exposed to a selection of advanced data structures and the algorithms that operate on them. Advanced analysis techniques, such as the amortized analysis of data structures, will be covered. Students will also be exposed to intractable problems and their approximation. Data structures to be studied may include B+ trees, union-find, Fibonacci heaps, and blockchains. Additional data structures and algorithms may also be studied. Prerequisite(s): CSC 329 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 432 Wireless Networks
This course offers a comprehensive exploration of the principles, protocols, and technologies that form the foundation of modern wireless networks. Students will learn about the wireless physical layer (signal propagation, spectrum, modulation, path loss, interference), and wireless network architecture for a variety of systems. The curriculum balances theoretical knowledge with practical experience using state-of-the-art wireless research platforms. The course will also cover emerging topics and challenges in the field. Prerequisite(s): CSC 332 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 445 Compiler Construction and Design
This course builds upon the theoretical and programming foundations introduced in earlier courses to teach students about the structure and function of compilers and compiler components. Compilers are tools that convert high-level languages designed for human readability into low level languages designed for machine execution, and are vital to the democratization of information technology. Students will study aspects of lexical analysis, parsing, semantic analysis, code generation, and execution on a virtual machine. Prerequisite(s): CSC 243 and CSC 329 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 448 Quantum Computing Programming
This advanced course provides a hands-on exploration of quantum computing, focusing on practical implementation rather than theory. Students will develop and execute quantum algorithms, including Deutsch's Algorithm, the Deutsch—Jozsa Algorithm, Simon's Periodicity Algorithm, Grover's Search Algorithm, and Shor's Factoring Algorithm, using quantum development kits and simulators. The course covers essential quantum computing concepts such as entanglement, quantum teleportation, and quantum error correction, integrating them into coding exercises and real-world applications. Through programming-intensive projects, students will gain experience working with quantum gates, circuits, and simulators, preparing them to engage with emerging quantum technologies. Prerequisite(s): CSC 348 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 466 AI and Machine Learning
Many cognitive tasks that can be done easily and almost unconsciously by humans have proven extremely difficult to program on a computer. Artificial intelligence (AI) and machine learning deal with developing computer systems that can carry out these tasks. This course focuses on representation, reasoning, processing, and machine learning. Prerequisite(s): CSC 229 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 467 Machine Vision and Pattern Recognition
This course discusses machine vision and pattern recognition, emphasizing their roles in real-life applications such as the health and automotive sectors. Through hands-on exercises using the latest tools, students will engage with critical topics like image processing, classification, unsupervised and supervised learning such as CNN, and other emerging techniques. This course integrates foundational theories with industry-relevant practices for a holistic grasp of these pivotal technologies. Prerequisite(s): CSC 325 and CSC 366 with a grade of C or higher
Credits: Credits:3 (3,0)

CSC 490 Senior Project
The primary objective of this course is to give Computer Science students an opportunity to integrate techniques and concepts acquired in their coursework to the real-world experience of putting together and developing a functioning system. Elements will be drawn primarily from previous coursework, however everyone, functioning as part of a team, is required to go beyond what they've learned in coursework in order to develop a working system. The course is experiential in nature i.e. the student will be required to produce results for use by real individuals and will be evaluated both on process and end-product. In addition to prerequisites, Senior level standing is required. Prerequisite(s): CSC 311 and CSC 325, all with a grade of C or higher, and Senior Level Standing and Departmental Approval
Credits: Credits:4 (4,0)

CSC 496 Special Topics in Computer Science
Courses that range from 496-497 will cover topics not covered in the regular curriculum. Topics may vary from term to term and reflect the interests of students, faculty and industry. Please check with the department office for information on topics to be covered each semester. Prerequisite(s): Permission of department
Credits: Credits:3 (3,0)

CSC 497 Special Topics in Computer Science
Courses that range from 496-497 will cover topics not covered in the regular curriculum. Topics may vary from term to term and reflect the interests of students, faculty and industry. Please check with the department office for information on topics to be covered each semester. Prerequisite(s): Permission of department
Credits: Credits:3 (3,0)

CSC 499 Independent Study in Computer Science
This course allows students to receive credit for academic research and development work performed under the supervision of a full-time computer systems faculty member in a specialized area of mutual interest. The student will have an opportunity to work individually, or with a group in designing, developing, and preparing for publication the results of a research or development project. Enrollment requires prior agreement with both the supervising faculty member as well as the department chair. Credit can be received for this course more than one time with prior department permission. Prerequisite(s): Permission of department

Credits: Credits:3 (3,0)

DENTAL HYGIENE (DEN)

DEN 015 Skills Refresher Course
This course is designed to assist students in maintaining their clinical skills following a break in their clinical sequence. Demonstration of clinical competency prior to re-entering the clinical sequence is necessary to ensure proper patient treatment. Additionally students who have not acquired sufficient clinical skills in their clinical course work will have the opportunity to remediate in this course.
Course Offered: Fall, Spring
Credits: Credits:2 to 2 (2 to 2,0)

DEN 102 Dental Materials and Expanded Functions
This course is concerned with the study of dental materials that are employed in dentistry for the fabrication of dental appliances and tooth restorations. It will provide the student with a basic understanding of the various procedures, materials, and devices commonly used in dental practice. Emphasis will be placed on the physical and chemical properties of dental materials and how these properties affect the care and manipulation of the materials. Basic laboratory techniques, as well as expanded functions, will be performed in the lab. Spring. Prerequisite(s): DEN 105
Corequisite(s): DEN 102L
Course Offered: Spring
Credits: Credits:3 (2,2)

DEN 105 Dental and Oral Anatomy
The study of the anatomy of the oral, facial complex and the morphology of the dentitions. Emphasis is placed on technical dental terminology as well as occlusion. This course includes a co-requisite laboratory designed to provide experience in mastering tooth morphology and occlusion. Prerequisite(s): Admission to the Dental Hygiene Program. EGL 101, CHM 124 (or High School Chemistry/Lab) and BIO 166, all with a minimum grade of C Corequisite(s): DEN 105L
Course Offered: Fall
Credits: Credits:3 (2,3)

DEN 106 Oral Radiology I
This course acquaints the student with the nature of ionizing radiation, the history of x-rays, and their production and properties. The theory and practice of exposing, processing, mounting, and analyzing dental radiographs and digital images are covered as well as radiation dosage, radiation hazards, and protective devices for patient and operator. Emphasis is placed on the identification of anatomic landmarks and the differentiation of these from conditions which indicate abnormality or disease. This course includes a co-requisite laboratory which includes two hours per week of laboratory activity. Prerequisite(s): DEN 105, with a minimum grade of C or higher. Corequisite(s): DEN 106L
Course Offered: Spring
Credits: Credits:3 (2,2)

DEN 108 Oral Histology and Embryology
This course reviews basic histological tissues. Microscopic structures of the oral tissues are studied and include the hard palate, soft palate, tongue, lips, salivary glands and tonsils. Emphasis is on the development of the face, the oral cavity and, in specific, the tooth and its surrounding tissues. Spring. Prerequisite(s): DEN 105
Course Offered: Spring
Credits: Credits:2 (2,0)

DEN 110 Preventive Oral Health Concepts I
This course is an introduction to the study of dental hygiene. It includes an overview of the dental hygiene profession to include current and future roles of the dental hygienist. Special emphasis is placed on the hygienist as periodontal co-therapist, the responsibility of the dental hygienist to the profession and the development and strengthening of values that pertain to the profession of dental hygiene. Other topics to be covered include: infection control procedures, disease transmission, the etiology and role of dental biofilm and calculus, biofilm control strategies, the importance of medical histories, medical emergencies, and planning implications for the medically compromised patient. Corequisite(s): DEN 105, 105L, 115
Course Offered: Fall
Credits: Credits:2 (2,0)

DEN 115 Clinical Dental Hygiene I
This is a clinical course in the practical application of dental hygiene techniques with supplemental discussions related to the clinical practice of the dental hygienist. Emphasis is placed on proper patient and operator positioning, the use of dental equipment, maintenance of an aseptic environment, patient assessment procedures, and instrumentation principles and techniques. Corequisite(s): DEN 105, 105L and 110
Course Offered: Fall
Credits: Credits:3 (0,0,8)

DEN 126 Periodontology
A basic understanding of the principles and concepts associated with periodontology, including a detailed study of the periodontal tissues in both health and disease. Special emphasis is placed on the role of the dental hygienist as a periodontal co-therapist in the development of skills necessary to provide initial non-surgical and supportive periodontal therapy within the framework of a comprehensive dental hygiene care plan. Spring. Prerequisite(s): DEN 105, 110, 115 and BIO 221 with a grade of C or higher
Course Offered: Spring
Credits: Credits:2 (2,0)

DEN 201 Pain Management
This course is designed to provide an in depth study of anesthesia and pain control as it is used in Dentistry. The mechanism of actions of anesthetic agents as well as other methods of pain control will be studied, demonstrated, and practiced. This course has a co-requisite laboratory that allows students the opportunity to practice the administration of local anesthesia. Prerequisite(s): DEN 102, 105, 106, 120, 126, 220 and 225 all with a grade of C or higher
Course Offered: Fall
Credits: Credits:2 (1,2)

DEN 203 Principles of Nutrition for Oral Health Professionals
This course is designed to educate the dental hygiene student in basic principles of nutrition, metabolism and digestion. There is an emphasis on the biochemical function of carbohydrates, protein, lipids, vitamins, and minerals as they relate to health and wellness, nutrition and disease, energy balance, eating disorders, and the oral manifestations of nutritional deficiency. Nutrition labeling, nutrition guidelines and dietary analysis of a client's diet and review of pertinent nutrition literature is essential to the dental hygiene process of care and therefore, is an important component to the scope of this course's requirements. Fall. Prerequisite(s): CHM 124 (or High School Chemistry/Lab)
Course Offered: Fall
Credits: Credits:2 (2,0)

DEN 205 Oral Pathology
The study of the fundamentals of microscopic and gross pathology. Discussion of general pathologic processes with emphasis on pathology of the oral, dental, and periodontal tissues and their etiology and prevention. Fall. Prerequisite(s): DEN 220 and 225 and BIO 166 and BIO 221 with a Minimum Grade of C or higher
Course Offered: Fall
Credits: Credits:2 (2,0)

DEN 207 Oral Radiology II
Laboratory activities and experiences are designed to provide students with further practice in developing skills with intra-oral radiographic techniques. In addition, students will learn supplemental techniques that are not limited to, but include occlusal, extra-oral, digital, panoramic and specialized patients. Interpretations of radiographs will be emphasized, with integration of the role radiographs play in the dental hygiene diagnosis and treatment planning. Fall. Prerequisite(s): DEN 106
Course Offered: Fall
Credits: Credits:1 (0,2)

DEN 212 Pharmacology
This course is designed to educate the dental hygiene student in the principles of pharmacology as they pertain to dentistry. In particular, the student will be taught the basics of organic compound structure, classification and nomenclature by the IUPAC system. The course will cover prescription writing, drug uptake, synthesis and elimination by the body, and the Krebs Cycle. Drugs studied will include, opioids, non-opioids, anti-infective agents, local and general anesthetics, anti-anxiety and psychotherapeutic agents, autonomic drugs, cardiovascular drugs, corticosteroids, hormones, histamines and fluoride. Students will learn how to think critically about a patient's health history and how the patient's

medications may affect or be affected by dental office procedures. Prerequisite(s): DEN 220, 225 and CHM 124 (or High School Chemistry/Lab), BIO 166, 221 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

DEN 220 Preventive Oral Health Concepts II
This course is a continuation of the study of Dental Hygiene. This course includes a detailed study of such preventive dental hygiene techniques as fluorides, nutritional counseling, patient motivation and management, oral physiotherapy techniques. Also covered are discussions on dental hygiene care planning, dental biofilm, calculus, caries, dental products, desensitization, periodontal and restorative charting. A research paper on an aspect of preventive dentistry will be expected from each student. Spring Prerequisite(s): DEN 105, DEN 110, DEN 115, BIO 221 with a grade of C or higher Corequisite(s): DEN 225
Course Offered: Spring
Credits: Credits:2 (2,0)

DEN 221 Community Oral Health I
This course is an introduction to the concepts and core principles of community oral health and provides the student with an orientation to the role of the dental hygienist as educator, resource person and consumer advocate in the field of dental public health. An introduction to epidemiology and research principles will promote a better understanding of scientific literature. In addition, the student will develop the skills necessary to assess various target populations and select educational strategies that will effectively provide culturally appropriate oral health education programs. Fall Note: Students cannot get credit for DEN 221 and 221W; DEN 221W can be used to fulfill the writing intensive requirement. Prerequisite(s): DEN 110 and 115
Course Offered: Fall
Credits: Credits:2 (2,0)

DEN 222 Community Oral Health II
This course is a continuation of the study of Community Oral Health I. Public health concepts, theories and their application at the federal, state and local levels will be explored. In addition, students will develop the skills necessary to complete a community oral health needs assessment. Participation in public health education projects is required. Spring Prerequisite(s): DEN 221W
Course Offered: Spring
Credits: Credits:2 (2,0)

DEN 225 Clinical Dental Hygiene II
A continuation of the practical applications of dental hygiene techniques with supplemental lectures and discussions related to the clinical practice of the dental hygienist. Spring Prerequisite(s): DEN 105, DEN 110, DEN 115 and BIO 221 with a grade of C or higher Corequisite(s): DEN 220
Course Offered: Spring
Credits: Credits:3 (0,0,8)

DEN 230 Preventive Oral Health Concepts III
This course is a continuation of the development, assessment and evaluation of dental hygiene practice and knowledge through a variety of classroom techniques. Values' clarification, new advancements/ technology, and current preventive methods will be discussed. Preventive oral health techniques and treatment care in association with special needs patients will be emphasized. It is intended that the student will utilize this information to assist him or her clinically to develop a patient specific protocol and comprehensive treatment plan for the child, adolescent, adult, geriatric and medically compromised patient. Fall Prerequisite(s): DEN 220, 225 and BIO 221 Corequisite(s): DEN 235
Course Offered: Fall
Credits: Credits:2 (2,0)

DEN 235 Clinical Dental Hygiene III
A continuation of the development of and application of dental hygiene skills and knowledge through clinical practice in hospitals and clinics both on and off campus. Clinical participation with new innovations, and current preventive techniques in the practice of dental hygiene and application of the expanded roles of the dental hygienist will be emphasized. Fall Prerequisite(s): DEN 220, 225 and BIO 221 Corequisite(s): DEN 230
Course Offered: Fall
Credits: Credits:4 (1,0,12)

DEN 240 Dental Practice Management, Ethics and Jurisprudence
Through a variety of classroom techniques, the development assessment and evaluation of dental hygiene practice will be continued. Lectures and discussions will focus on current issues in dental hygiene including ethics, jurisprudence, dental law, practice management and alternative practice settings. Presentations will be held on resume writing and role playing for job interviewing. Spring Prerequisite(s): DEN 230, 235 Corequisite(s): DEN 245
Course Offered: Spring
Credits: Credits:2 (2,0)

DEN 245 Clinical Dental Hygiene IV
A continuation of the development of and application of dental hygiene skills and knowledge through clinical practice in hospitals and clinics both on and off campus. Clinical participation with new innovations and current preventive techniques in the practice of dental hygiene and application of the expanded roles of the dental hygienist will be emphasized as well as dental practice management concepts. Spring Prerequisite(s): DEN 201, 230, 235 Corequisite(s): DEN 240
Course Offered: Spring
Credits: Credits:5 (0,0,16)

DEN 302 Principles of Dental Anesthesia
This course is designed to provide an in depth study of anesthesia and pain management through the use of local anesthetic agents and the administration of nitrous oxide and oxygen sedation. The mechanism of actions of anesthetic agents as well as indications and contraindications for use, and the treatment of complications and emergencies are stressed. Other methods of pain control will be discussed through research and presentations. This course meets the New York State Education's Department's requirements for certification in the administration and monitoring of local infiltration anesthesia and nitrous oxide analgesia in the practice of dental hygiene. This course has a co-requisite laboratory that allows students the opportunity to practice efficient techniques of pain management through local anesthesia on clinical partners under the direct supervision of clinical faculty. Prerequisite(s): DEN 102, DEN 105, DEN 106, DEN 126, DEN 212, DEN 220, and DEN 225 with a grade of C or higher. Corequisite(s): DEN 302L
Course Offered: Spring
Credits: Credits:2 (1,3)

DEN 303 Practice Management for Quality Assurance
This course will involve students with concerns related to practice management. Emphasis will be placed on assuring quality care while focusing on the principles and concepts of a client-centered practice environment in our evolving health delivery system. Economics for the practice, office management, comprehensive care plans, and the use of new technology will be explored to support the practice goals. Fall Prerequisite(s): Associate Degree in Dental Hygiene or Associate in Applied Science Degree in Dental Hygiene
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

DEN 309 Oral Epidemiology in Public Health
Oral epidemiology in public health will explore the distribution and determinants of oral health-related conditions such as dental caries, periodontal disease, and oral cancer in specified populations. An in depth view on the uses of epidemiology, as it relates to the health of the public, will enable the student to document oral health needs, evaluate existing oral health programs and interventions. Students will be introduced to the role of oral epidemiology in controlling oral health problems in the community. Fall. Prerequisite(s): Associate Degree in Dental Hygiene or Associate in Applied Science Degree in Dental Hygiene
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

DEN 310 Teaching Strategies for Health Care Educators
The Principles of education, teaching, methodology, and instructional design utilized by health care educators in schools, community outreach, hospitals, other skilled nursing facilities, and/or higher education institutions are covered in this course. Topics include performance objectives, competencies, lesson planning, syllabi construction, analysis, and formative evaluation of instruction; traditional and non-traditional teaching methodologies; academic course development; current issues in dental health and dental hygiene education. Spring Prerequisite(s): DEN 220 or Associate Degree in Dental Hygiene.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

DEN 322 Dental Public Health Planning I
This course will provide the students with the concepts surrounding dental public health :..,d community program planning. These principles include health literacy, oral epidemiology, and methods used to measure dental disease in a given population. The community program planning process will be examined including assessment, planning, implementation, and evaluation with a primary focus on assessment and planning to design an intervention program to improve oral health in the community. Evidence-based prevention, oral health surveillance, health communication theories, and research principles will be explored. Prerequisite(s): DEN 310 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:2 (2,0)

DEN 323 Dental Public Health Planning II
This course is a continuation of the study of Dental Public Health Planning l. Emphasis will be placed on continuing the process of community program planning with a greater focus on program implementation, and evaluation. Participation in a public health education project is required. The concept of statistical analyses will be explored to determine program success and prepare students to become patient advocates in the dental public health setting. Students will investigate the concepts of cultural competence, social responsibility, and the role the dental hygienist plays in overcoming barriers to care. Pre-requisite(s): DEN 322 with a grade of C or higher
Credits: Credits:1 (1,0)

DEN 330 Essentials of Clinical Practice Theory
This course is designed to increase the knowledge of dental hygiene practice. It is a continuation of the development, and assessment of the dental hygiene process of care. This course combines the integration of theory with clinical experience in a variety of oral hygiene preventive and therapeutic procedures. New advancements in patient care as well as the introduction of new technology and current preventive methods will be analyzed and discussed. Students will apply the knowledge gained and utilize the information to develop patient specific protocols and comprehensive treatment plans in the provision of care for the child, adolescent, adult, geriatric and special needs patient. Prerequisite(s): DEN 220, DEN 225, BIO 221 with a grade of C or higher Corequisite(s): DEN 335
Course Offered: Fall
Credits: Credits:2 (2,0)

DEN 335 Essentials of Clinical Practice I
This clinical course is designed to build on the foundational knowledge of dental hygiene care. There is a concentration on the development of clinical skills through the application and delivery of oral health services. A case based approach is implemented, with emphasis on dental hygiene concepts, to foster critical thinking and problem solving abilities. Clinical experiences focus on advanced instrumentation techniques and innovative advancements that include diagnostic, therapeutic and treatment technologies. Prerequisite(s): DEN 126, DEN 220, DEN 225 and BIO 221 with a grade of C or higher. Corequisite(s): DEN 330
Course Offered: Fall
Credits: Credits:4 (0,0,12)

DEN 340 Dental Hygiene Law & Practice Management
This course will focus on the professional responsibility of dental hygienists. Emphasis will be placed on dental law, the professional code of ethics, core values, and standards. Situations focusing on integrity and ethical decision making will be highlighted. Additionally, topics ranging from non-traditional career paths, the changing role of the dental hygienist in alternative practice opportunities including self-regulation and independent practice will be reviewed. Relevant aspects of the political and economic influences of managed care and its impact on the profession of dental hygiene will be discussed. Prerequisite(s): DEN 302, DEN 330, DEN 335, and BIO 221 with a grade of C or higher. Corequisite(s): DEN 345
Course Offered: Spring
Credits: Credits:2 (2,0)

DEN 345 Essentials of Clinical Practice II
This course is a continuation of the development and application of dental hygiene skills and knowledge through clinical practice in hospitals and clinics both on and off campus. Clinical participation with new innovations and current preventive techniques in the practice of dental hygiene and application of the expanded roles of the dental hygienist will be emphasized. Prerequisite(s): DEN 330, DEN 335 Corequisite(s): DEN 340
Course Offered: Spring
Credits: Credits:4 (0,0,12)

DEN 401W Health Science Research: Principles and Methods (Writing Intensive)
A profession seeking to enhance its professional stature strives for the continual development of a scientific body of knowledge fundamental to its practice. Dental hygiene research involves a systematic search for knowledge about issues of importance to the dental hygiene profession. This course is designed to develop skills in scientific research. Emphasis is placed on the research process which includes problem identification, hypothesis writing, research design data collection, and data analysis and data interpretation. This is a writing-intensive course. Fall Note: DEN 401W can be used to fulfill the writing intensive requirement. Prerequisite(s): (Associate Degree in Dental Hygiene and MTH 110) or (EGL101 with a C or higher and DEN 220 and DEN 322)
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

DEN 402 Gerontology
Gerontology is the study of aging. This course is designed to promote an understanding of the social, psychological, and biological aspects of the aging process and the relationship to health. The course will examine current theories of aging, demographic profiles of the older adult population, and the increased incidence of oral health problems as we age. Close examination of the aging process will enable the student to gain insight into the fastest growing portion of our population and recognize the needs of the elderly and the concerns of the 77 million baby boomers coming of age. Spring Prerequisite(s): Associate Degree in Dental Hygiene or DEN 230 with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

DEN 406W Proposals and Grant Management for Health Programs (Writing Intensive)
This course will introduce the student to the fundamentals of proposal writing and researching grant funding sources. Students will demonstrate the preparation of supporting documentation of need, implementation, evaluation, and budgeting. The culminating project of the course will be assembling the segments of a program proposal or grant application into a final document that is worthy of submission. This is a writing-intensive course. Spring Note: DEN 406W can be used to fulfill the writing intensive requirement. Prerequisite(s): Associate Degree in Dental Hygiene and EGL 101 with a C or higher and DEN 309 or DEN 322
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

DEN 407 Dental Hygiene Practicum Seminar
This course is designed as a pre-requisite to DEN 409 Dental Hygiene Practicum. Students will have the opportunity to research and explore areas of special interest for their field placement practicum experience. Fall Prerequisite(s): Associate Degree in Dental Hygiene or Associate in Applied Science Degree in Dental Hygiene. Completion of at least 4 of the core DEN courses, or permission of the Department.
Course Offered: Fall
Credits: Credits:1 (1,0)

DEN 409 Dental Hygiene Practicum *AL
This course provides a foundational experience and will involve students in a 40-hour self-directed practicum that is multidimensional in its scope. The specialized areas of interest are expanded to include, but are not limited to, education, research, corporate/business, health care delivery systems, and specialized practice interests. Spring. Prerequisite(s): Associate Degree in Dental Hygiene and DEN 407, with a minimum grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

DEN 430 Senior Seminar I
This course will enable students to explore the role of the dental hygienist in a multidisciplinary setting while examining the principles of leadership and professional development. The course will provide information on leadership styles, qualities, traits, and virtues, mentoring, advocacy, self-reflection, and team approach healthcare. In addition, the students will identify their leadership strengths and behavioral profile. The course will encourage students to consider opportunities for professional development and team based collaborative healthcare relative to dental hygiene. Prerequisite(s): DEN 340 and DEN 345 with a grade of C or higher. Corequisite(s): DEN 435 Credit: 1
Course Offered: Fall
Credits: Credits:1 (1,0)

DEN 435 Advanced Dental Hygiene Practice I
This course will provide students the opportunity to advance their instrumentation and patient management skills through the participation in a dental hygiene residency program at various health care settings. Additionally, this course will emphasize the treatment of the periodontally involved patient including assessment, treatment planning, implementation of care and maintenance. Students will apply the concepts of peer evaluation and interprofessional education to prepare them for the demands of treating the more complicated patient in today's healthcare environment. Time management skills will be enhanced in order to prepare students for demanding patient schedules in the workplace. Prerequisite(s): DEN 302 and DEN 340 and DEN 345 with a grade of C or higher. Corequisite(s): DEN 430
Course Offered: Fall
Credits: Credits:3 (0,0,9)

DEN 440 Senior Seminar II
This course will allow students to master the concepts of dental hygiene production in a dental healthcare setting. Students will investigate alternative practice settings and the emerging roles of the dental hygienist. Additionally, students will examine the role of financial planning, maximizing resources and career management, in order to gain the necessary skills for a successful dental healthcare practice. Prerequisite(s): DEN 430 and DEN 435 with a grade of C or higher. Corequisite(s): DEN 445
Credit: 1
Course Offered: Spring
Credits: Credits:1 (1,0)

DEN 445 Advanced Dental Hygiene Practice II
This course is a continuation of Advanced Dental Hygiene Practice I. This capstone course will require students to present case studies utilizing advanced dental hygiene practice skills. Additionally, students will spend time in a healthcare facility dental hygiene residency program. Students will also provide care to patients in the Dental Hygiene Care Center at Gleeson Hall. Prerequisite(s): DEN 430 and DEN 435 with a grade of C or higher. Corequisite(s): DEN 440
Course Offered: Spring
Credits: Credits:3 (0,0,9)

ENGINEERING CONSTRUCTION MGMT (ECM)

ECM 502 Project Management
This course covers the core knowledge of the project management professions. It includes the creation of the project charter and scope statement, establishment of the Work Breakdown Structure (WBS), and communication of the overall plan including risk planning, resource planning, creation of the project schedule and budget, development of the project team, and measurement and control of project implementation. Course content is aligned with Project Management Professional Certification requirements, such that the course serves as a preparation for the PMP examination (PMP examination is not part of the course). Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 503 Research Methods for Technology Management
This course introduces data based scientific/engineering research methodology. This course includes a systematic literature search process, objective data collection, and research design. The course also includes inferential statistics such as hypothesis testing and regression analysis. Students are also exposed to various parametric and non-parametric statistical concepts like t-distribution, chi square test etc. Students learn how to put together a research proposal that may result in a full-blown research topic for future course(s). Prerequisite: Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 513 Computer App Eng Technology
This course is geared toward the conceptual design, manufacturing and maintenance of technological devices. Students are introduced to different aspects of computer aided design, including solid mechanics, computational fluid dynamics (CFD), motion analysis and heat transfer. Relevant laboratory activities are conducted to acquaint students with constraint-based reasoning and design optimization. Concepts of computational power, parallel computing and cloud computing will be discussed as well. Laboratory course work furthers the application of theoretical concepts. Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator Corequisite: ECM 513L
Credits: Credits:3 (2,2)

ECM 530 Residential Development Management
This course covers current homebuilding systems in the United States from design to construction. It includes an overview of the homebuilding industry, housing demand, management of the homebuilding process, the regulatory environment, housing design guidelines, development of contract documents, and the residential construction process. It also covers structural, mechanical, electrical, and plumbing systems. Prerequisite(s): ECM 502 or BUS 502 with a grade of C or better, Graduate status in ECM, and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 531 Construction Cost Analysis and Advanced Estimating
This course covers the emerging techniques of construction cost analysis and advanced estimating. It includes estimating cycles, data collection and data sources for estimating, cost index, cost capacity factors, parameter cost, trade-off analysis, break-even analysis, depreciation, overhead, time value of money, rate-of-return analysis and forecasting. It also covers bid strategies, life cycle cost analysis, and cost-benefit ratio analysis. Prerequisite(s): ECM 502 or BUS 502 with a grade of C or better, Graduate status in ECM, and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 532 Legal Aspects of Const Mgmt
This course covers the complexity of legal environments in construction. It includes principles of contract, standard forms of contract, contractual relationships, bidding documents, dispute resolution, red-flag clauses, labor agreements, insurance and surety bonds, change order management, differing site conditions, delays, suspensions and terminations, liquidated damages, allocating responsibility for delays, constructive acceleration, and associated documentation. Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 533 Heavy Construction Operation and Equipment
This course covers current heavy construction practice in the United States in terms of construction planning and optimum use of heavy equipment. It includes earthwork planning, equipment cost, geotechnical materials, machine specifications, trucks and hauling equipment management, aggregate production including concrete and asphalt, cranes, piles and pile driving equipment, and equipment for pumping water for job sites. The course includes ten laboratory experiments, two on planning earthwork, three on geotechnical materials, compaction, and stabilization, one on compressed air, two on aggregate production, and two on concrete production. Prerequisite(s): ECM 502 or BUS 502 with a grade of C or better, Graduate status in ECM, and approval of the Graduate Program Coordinator Corequisite(s): ETM 533L
Credits: Credits:3 (2,2)

ECM 535 Virtual Design & Construction
Virtual Design and Construction (VDC) is a management approach that integrates Building Information Modeling (BIM), collaborative processes, and performance metrics to improve communication among stakeholders and enhance project outcomes across the lifecycle of a construction project. This course introduces the fundamentals of VDC while emphasizing hands-on applications of BIM and emerging technologies. Students will learn how these tools support project planning, execution, operation, and facility management, and will apply them through case studies, practical exercises, and a final project. Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 630 Decision Making & Risk Mgmt
This course covers concepts and methods for making complex decisions in Technology Management. Students will identify criteria and alternatives, set priorities, and engage in allocating resources, strategic planning, resolving conflict, and making decisions. Students will select the most effective decision making approaches to evaluate multiple alternatives in scenarios with conflicting objectives and different levels of uncertainty. Students will also learn how to generate risk management plans, appraise mitigating risk options and revise decision making failures Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 631 Construction Contracts
This course covers details of construction contracts and related documents, which include contract documents, design phase documents, pre-bid documents, bid submission documents, forms of agreement, and documents supporting the agreement. This course also covers site condition clauses, red flag clauses, insurance contracts, and surety bonds, as well as documentation and record keeping requirements. In addition, labor agreements and joint venture agreements will be discussed. Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 670 Master's Project
This is a Capstone course for students who do not plan to take the thesis option. The course is designed as an independent study in which the student utilizes their knowledge in the field to evaluate a series of case studies. A complete oral and written presentation is required of each student detailing their work. In each case study the student must clearly demonstrate their ability to understand, analyze and solve technical and/or managerial problems by applying their knowledge gained through their course work. Students completing this course will not receive credit for BUS 670. Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECM 671 Master's Thesis
This is an independent study performed by the students to utilize their knowledge in engineering technology management. This practice-oriented work contributes to the enhancement of productivity, the improvement of quality, and the achievement of an industry's cost effectiveness. The master's thesis draws on students' individual interests, stimulating their critical thinking, and sharpening their problem-solving abilities. A literature survey, analysis, discussion, and conclusions are documented in the thesis under the direction of a faculty mentor and presented by the student at the completion of the work to demonstrate their professional competency in their field of study. Students completing this course will not receive credit for BUS 671. Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:1 (1,0)

ECM 680 Special Topics in Technology Management
This special topics course is designed to inspire students to study a specific topic or several related topics that address a special interest in technology management. It will require students to research, investigate, and analyze design, manufacturing, quality, or production issues. The course strategy is established by the instructor and adjusted to respond to students' interest to achieve the class goal of enhancing in-depth understanding of the subject matter. Students taking ETM 680 cannot get credit for BUS 680. Prerequisite(s): Graduate status in ECM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ECONOMICS (ECO)

ECO 110 Introduction to Personal Finance
Students will learn how to navigate the financial decisions they must face and how to make informed decisions related to budgeting, banking, credit, insurance, spending, taxes, saving, investing, inheritance, and living independently. The course will develop financial literacy skills, an understanding of economic principles, and will provide a basis for responsible citizenship and career success.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 120 The Global Economy
This course provides an overview of current global economic issues. Basic economic concepts are introduced in order to explain differences in the level of development among countries, the direction of trade, the causes and effects of international financial crises, and the motivations of some countries to transition to a market economy. The course also discusses the way in which countries coordinate efforts to deal with matters of international concern such as pollution and global warming. Topics also include the role of international institutions including the World Bank, the international Monetary Fund, the World Trade Organization, and the United Nations.
Course Offered: Fall
Credits: Credits:3 (3,0)

ECO 156 Principles of Economics (Macroeconomics)
This course is designed to introduce classic macroeconomic issues such as unemployment, inflation, national income and economic growth. The course will provide a unified framework to address these issues and to study the impact of different policies, such as monetary and fiscal policies, on the aggregate behavior of the economy. Analytical tools will be used to understand the experiences of the United States and other countries, and to address how current policy initiatives affect their macroeconomic performance.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ECO 157 Principles of Economics (Microeconomics)
This course introduces students to fundamental economic concepts and theory, including demand, supply, and the formation of equilibrium prices in product and resource markets. Students will learn a specific set of analytical tools as well as how to apply them to current policy issues. In addition, the course offers an introduction to applied fields such as industrial organization (market structures), labor economics, international trade, and market failure.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ECO 205 Introduction to Social Science Modeling
This course introduces students to the technique of social science modeling by learning and applying a variety of different models of individual and social behavior. It will use basic concepts in probability and simple economic models (including, but not limited to, supply and demand, two-person prisoners' dilemma, and indifference curves) to understand issues such as competition, purchasing/investment decisions, risk-taking and risk-avoiding behavior, diversity, and collective action. This course is designed for all students interested in getting a deeper exposure to economics than is available at the 100 level, and economics majors preparing to take more advanced classes in economics. Prerequisite(s): ECO 156 or ECO 157
Credits: Credits:3 (3,0)

ECO 250 Quantitative Analysis for Economics
This course introduces students to basic mathematical techniques used in economic analysis. It applies differential calculus and linear algebra to economic analysis. Topics include: functions, equations in economics, constrained optimization, partial differentiation, and linear algebra. Prerequisite(s): ECO 156 or ECO 157 and (MTH 117 or MTH 129) Corequisite(s): MTH 117 or MTH 129 (to be taken before ECO 250 or simultaneously)
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 255 Money and Banking
A description of American central banking, the structure and development of commercial banks and non-bank financial intermediaries, the nation's money and capital markets, bank regulation and supervision, monetary theory and its policy implications, and the operation of the system in international payments. Prerequisite(s): ECO 156
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ECO 259 Contemporary Economic Issues and Problems
Explores and analyzes the problems and issues of inflation, unemployment, and the necessity of urban renewal, the growth of corporate conglomerates, and the social and political ramifications in the world's money markets, together with the reasons giving rise to these occurrences. Prerequisite(s): ECO 156
Course Offered: Summer
Credits: Credits:3 (3,0)

ECO 260 Intermediate Microeconomics
This course provides students with a critical examination and introduction to the analysis of markets, demand theory, production, theory of the firm, market structure, general equilibrium and welfare analysis, and introductory game theory. The course introduces students to introductory modeling and mathematical methods used in microeconomics to model and estimate demand relationships, production functions, market behavior, and risk and uncertainty. Prerequisite(s): ECO 157 and (MTH 117 or 129)
Course Offered: Fall
Credits: Credits:3 (3,0)

ECO 262 Managerial Economics
This course introduces students to the use of economic methods for managerial decision-making. The focus of the course is on the practical application of economic techniques to business problems, including: the theory of the firm, demand estimation, production functions, cost estimation, market structure, pricing strategy, and game theory. Note: Students completing this course may not receive credit for ECO 260
Prerequisite(s): ECO 157 and (MTH 117 or 129)
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ECO 270 Intermediate Macroeconomics
Study of aggregate economic analysis. With attention to the determination of the level of income, employment, and inflation (IS-LM); Fiscal and monetary stabilization policies critically examines both theories, and the policies associate with them; the macroeconomic implications of fixed and flexible exchange rates in the presence of international capital mobility supply-sided economics. Prerequisite(s): ECO 156 and (MTH 117 or MTH 129)
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ECO 303 Arts and Entertainment Economics
An analysis and in-depth study of the economics and economic impact of the arts and entertainment activities. Topics include arts demand and supply, live performing and cultural arts, profit and non-profit entertainment industries, music and film industry (recorded arts) arts venues, museums, and performing arts centers and economic models of nonprofit cultural organizations. Prerequisite(s): ECO 156 and ECO 157
Course Offered: Winter, Spring, Summer
Credits: Credits:3 (3,0)

ECO 304 Sports Economics
An analysis and in-depth study of the economics and economic impact of professional and amateur sports. Topics include team and league structures, labor relations, stadium financing, consumer demand for sports, and the role and impact of public and private subsidies. The student should be able to: identify and explain the economic principles and problems associated with sports team ownership, stadium economics, as well as the impact and effects of radio and television broadcast rights on sports economics. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ECO 305 Real Estate Economics &Finance
This course is designed to provide students with an introduction to the analysis of investment in real estate markets and to real estate finance. The class will consider both housing and mortgage markets, as well as public policies that affect these markets. An important segment of the course will be training in the analysis of mortgage instruments used to finance investments in real estate. This will include calculating payment streams for different types of mortgages, consideration of different types of mortgage contracts that shift interest rate and default risk between lenders and borrowers, and the role of the secondary market for mortgage securities. Prerequisite(s): (ECO 156 or ECO 157) and (MTH 110 or MTH 117 or MTH 129 or ECO 250)
Credits: Credits:3 (3,0)

ECO 306 Cannabis Eco:Mkts and Policy
This course provides students with a systematic introduction to economic concepts and issues as they relate to the cannabis industry. Students will investigate the microeconomic and macroeconomic forces influencing the decisions of buyers and sellers in cannabis markets throughout the supply chain from grower to consumer, and students will evaluate cannabis policy along the dimensions of efficiency, equality, and other criteria. Prerequisite(s): ECO 156 or ECO 157 or enrollment status in Cannabis production and management certificate program
Credits: Credits:3 (3,0)

ECO 310 Health Economics and Policy
The aim of this course is to introduce students to the application of economic thinking to the analysis of health policy and health systems. Specifically, we will survey the organization, financing and delivery of health services, the economic evaluation of alternative methods of providing health care, priority setting and resource allocation and the health behaviors of individuals. Prerequisite(s): ECO 156 or ECO 157 and junior level status
Course Offered: Fall
Credits: Credits:3 (3,0)

ECO 312 Economics of Non-Profit Organizations
This course provides an overview of the regulatory and legal constraints that nonprofit organizations face in the global economy. Students will analyze the strategies nonprofits use in adapting to fluctuating economic and political circumstances. The course will focus on the development of national, international, and transnational nonprofit organizations and the challenges embedded in the regions and industries in which they operate. Prerequisite(s): ECO 156 or ECO 157 and junior level status
Credits: Credits:3 (3,0)

ECO 315 The Government and the Economy
The course provides an overview of the role and organization of the government in the economy, with specific applications to the United States and other countries around the world. The course discusses the conditions under which government intervention in the economy is desirable, and covers both the tax revenue side and the expenditure side of the government budget. Specific topics include externalities, public goods, redistributive tax and expenditure policies, and the assignment of responsibilities among different levels of government. Prerequisite(s): (ECO 156 or ECO 157) and Junior Level Status
Credits: Credits:3 (3,0)

ECO 320 Internet and Network Economics
A study of the economic structure and growth of the modern economy focusing on the effect and impact of emerging technologies on industry, employment, financial markets and market structure. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ECO 321 Engineering Economics
This course will provide students with a basic understanding of the economic aspects of engineering in terms of the evaluation of engineering proposals with respect to their worth and cost. Topics include: introduction to Engineering Economics; interest and interest formulas; equivalence and equivalence calculations; evaluation of replacement alternatives and operational activities; basic fundamentals of cost accounting. Prerequisite(s): Admission to a Tech Program or approval of this Department chair.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ECO 330 Modern Economic Thought
The purpose of this course is to study the most important economic theories of the recent past in order to gain a better understanding, not only of these earlier economic theories, but also of the nature of economic theory in general and of the strengths and weaknesses of modern micro and macro-economics and policymaking. We will study the major schools of Modern Economic Thought -Neo-Classical, Austrian, Keynesian, Monetarist, etc. We will examine these theories to trace the long term thought on economic problems like value theory, money and inflation, free trade, macro- economics stability, etc. Prerequisite(s): ECO 156 and ECO 157
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ECO 340 International Trade
First of a two semester offering to provide a comprehensive exposition of the theory and principles of international trade, the importance of international trade in interdependent economics, and a knowledge of international trade institutions and how they relate to U.S. commercial policy. The material will employ an analytical as well as historical and institutional approach. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 341 International Finance
Second half of a two semester offering to provide theoretical and practical knowledge of international finance, its relationships to financial markets, and the international monetary system as it relates to the U.S. economy. The course work will focus on balance of payments, foreign exchange markets and the international monetary system. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ECO 342 Financial Economics
This course introduces students to the basic mathematical models, techniques and forms of analysis used in financial economic analysis. Topics covered include uncertainty and financial decision-making, mean-variance model of portfolio selection, Black-Scholes option pricing formula, utility functions, computational techniques and stochastic volatility. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Summer
Credits: Credits:3 (3,0)

ECO 350 Economics of Global Disasters
This course focuses on the inter-relationship between natural and manmade hazards and disasters and the economy. Disasters within the economic and sociology literature arise when an event impacts the physical, social and economic infrastructure beyond its normal absorptive capacity. Topics covered and examined include natural hazards and their effects on regional development, manmade disasters, methods of hazard analysis, impact estimation techniques, and disaster planning and mitigation, public policy and issues. Prerequisite(s): ECO 156 and ECO 157
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

ECO 358 Economics of Labor
Economics of Labor explores how individuals enhance their economic well-being through their work behavior and examines the role of labor markets in explaining disparities of wealth. Topics include the static labor market and its internal structure, the composition of the labor force, the nature of a job search, the life cycle human capital model, determination and classification of wages and wage structure, the American labor movement and the role of labor unions. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 360 Introduction to Experimental Economics
This course will introduce students to the intersection of two research programs: behavioral economics and analytic game theory. Students will leave this class able to make predictions using game theory and will understand how bounded rationality affects those predictions. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 365 R for Economics
This class introduces students to the R statistical programming language with an emphasis on using this powerful system to deal with economic and business data. This class is intended for students with little to no programming background. Over the semester students will learn to import data, clean and transform raw data, visualize data, run simple models and finally apply these tools to conduct their own project. Prerequisite(s): ECO 156 or ECO 157 with a grade of C or higher
Credits: Credits:3 (3,0)

ECO 372 Eco of Games & Strat w Bus App
This course is an overview of strategic interaction presented in the context of game theory. The course will prepare students for analyzing and solving problems where the outcome of an interaction depends directly on the decisions of all the individuals involved. After developing the analytical tools required to understand strategic interactions, students will apply these tools to problems in business management related to marketing, managerial decision-making, business law, pricing strategy, and the dynamics of competition. Prerequisite(s): ECO 157 and (MTH 116 or MTH 117 or MTH 129 or ECO 250) and junior level status
Course Offered: Fall
Credits: Credits:3 (3,0)

ECO 380 Econometrics
Students will learn and apply statistical methods used in empirical economic analysis. The course will cover the following topics: the fundamentals of probability and statistics, hypothesis testing, multivariate linear regression using Ordinary Least Squares (OLS), the statistical properties of OLS under less than ideal circumstances, the use of dummy variables, and specification analysis. Prerequisite(s): (MTH 110 or BUS 240 or MTH 341) and (ECO 156 or ECO 157) and (MTH 116 or MTH 117 or MTH 129) and Junior level status.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 389 Economics Field Experience
This course gives students the opportunity to earn credit for internship experiences without repeating ECO 489. ECO 389 focuses on professional development and career exploration, while ECO 489 emphasizes applied economic analysis. ECO 389 helps students clarify interests, build résumés, and gain workplace skills earlier in the major. The 300-level designation reflects its intended use by students who have some background in economics but are not yet at the advanced level. Prerequisite(s): ECO 156 or ECO 157, and department approval
Credits: Credits:3 (0,0,3)

ECO 390 Special Topics in Economics
This course enables students to explore a range of diverse topical and current issues in economics and will require extensive readings, analysis, and written work. Students should consult with the department prior to registering for this course. Prerequisite(s): ECO 156 or ECO 157
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

ECO 401 Industrial Organization
This course teaches students how to apply industrial organization theory to data. The course will cover strategic models of firm competition and analyze industrial policy issues. Students will gain a deeper understanding of the microeconomic and game theoretic frameworks necessary to study simplified models in industrial organization. Students will analyze topics including monopoly, oligopoly, cartels and collusion, market structure, price discrimination, product differentiation, technological change, advertising, and auction mechanisms. Prerequisite(s): ECO 250 and (ECO 260 or ECO 262) and Senior Level status
Course Offered: Summer
Credits: Credits:3 (3,0)

ECO 410 Public Finance
This course introduces students to the issues, interactions and inter-relationships arising between the market and government policy-making. Topics covered include: tools of public finance, budget analysis, externalities, political economy, cost-benefit analysis, taxation and policy, social insurance, income distribution and welfare. Prerequisite(s): (ECO 260 or ECO 262) and (ECO 255 or ECO 270)
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 412 Cost-Benefit Analysis
This course will focus on the principles of applied economic and welfare analysis. The basic theory of cost-benefit analysis is presented and its relevance for social policy analysis is established. Applications of cost-benefit analysis are examined in the light of management decision making, theoretical grounding in finance, accounting, marketing, investment and planning. The applications of cost-benefit analysis in the health care, non-profit, entertainment, transportation and information technology sectors are also examined. Prerequisite(s): (ECO 260 or 262) and (ECO 255 or 270)
Course Offered: Summer
Credits: Credits:3 (3,0)

ECO 420 Economics of Science and Technology
This course is an examination of technology based growth and development both in historical and current contexts. Topics include technology-based economic development, the role of human capital, technology transfer, intellectual property rights and patents, and network economics. Prerequisite(s): (ECO 260 or ECO 262) and (ECO 255 or ECO 270)
Course Offered: Fall
Credits: Credits:3 (3,0)

ECO 430 Urban and Regional Economics
This course will focus on the economics of cities and regions as well as the challenges faced by economic agents in urban areas. Students will gain an understanding of the economic forces that lead to the development of cities and their cohesion within regional economies. The course will enrich the typical spaceless economic analysis by introducing a spatial dimension. Students will focus on analyzing and prescribing policy to address the challenges of crime, transportation, firm location, housing, education, and local government in the local and regional economies. Prerequisite(s): (ECO 260 or 262) and (ECO 255 or 270)
Course Offered: Summer
Credits: Credits:3 (3,0)

ECO 435 Environmental Economics and Policy
This course provides a survey of the fundamental concepts underlying economic approaches to environmental policy, illustrates applications of these concepts in the real world and offers students the opportunity to apply their new knowledge toward understanding a current environmental problem. Prerequisite(s): (ECO 260 or ECO 262) and (ECO 255 or ECO 270)
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 440 Topics in Applied Economics
A treatment of diverse topics chosen by the department for their importance in current economics. The course will require extensive reading, analysis and written work depending on the topic. Students should check with the department before registering for this course regarding anticipated topics for the semester. Prerequisite(s): (ECO 260 or ECO 262) and (ECO 255 or ECO 270)
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 441 Economics of Gender
In this class economics theory and analysis will be used to address questions on gender differences in education, career choices, household decisions, and earnings. Models of labor supply and demand, allocation of resources within household, human capital, earning equation, and discrimination will be introduced and data will be examined to test these economic theories. Gender-related policy issues and applications will also be discussed. Prerequisite(s): (ECO 260 or ECO 262) and (ECO 255 or ECO 270)
Course Offered: Fall
Credits: Credits:3 (3,0)

ECO 450 International Development Economics
This course will introduce some of the fundamental questions and issues surrounding the development process including topics such as: economic structure, economic growth models dual sector models, export led growth, as well as a range of applied and historical examples including an overview of African, Asian, and Latin American development experiences, and current issues in economic development. Prerequisite(s): ECO 255, ECO 260, ECO 262 or ECO 270
Course Offered: Fall
Credits: Credits:3 (3,0)

ECO 480 Forecasting
This course the methodology and applications of econometric forecasting and time series analysis. Topics include linear regression model, stationarity, modeling seasonality, arima models, and volatility. Prerequisite(s): (ECO 380 and 260) or (ECO 262 and 255 or ECO 270)
Course Offered: Summer
Credits: Credits:3 (3,0)

ECO 489 Economic Internship
Advanced third and fourth year applied economics students will be placed in a public or private sector setting in which the student will be able to gain work experience in applied economics analysis. A written report on the internship experience is required of the student at the conclusion of the internship. Students may not repeat this course for credit. Prerequisite(s): (ECO 262 and ECO 260) or (ECO 250) and (255 or ECO 270)
Course Offered: Fall, Spring, Summer
Credits: Credits:3 to 3 (1,0,6 to 6)

ECO 490W Economic Research and Reporting (Writing Intensive)
This course introduces students to the methods and techniques of economic analysis, data and statistical analysis, interpretation of results, documentation, article preparation, and the report presentation. This is a writing-intensive course. Note: Offered at the discretion of the Economics Department Prerequisite(s): ECO 260 or ECO 262 and (ECO 270 or ECO 255) and ECO 250 and ECO 380 and EGL 101 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ECO 491 Applied Economic Analysis
This course is a follow-up to the economic research and reporting course. Its goal is to prepare the student to conduct independent research in consultation with their advisor, students will develop a senior project in an area of current economic interest. They will participate in seminar and present their research, culminating in a completed report and presentation on their research topic. Prerequisite(s): ECO 490 or 490W
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ELECTRICAL ENGINEERING TECHNOLOGY (EET)

EET 104 DC/AC Circuits
An introductory course to the fundamentals and basic principles of DC and AC circuits. Topics covered include: The definition of current, voltage and passive circuit elements such as, resistors, capacitors, and inductors, through their I-V characteristic relationships. Ohm's Law Power, Kirchoff's Current and Voltage Laws, Voltage and Current Divider Rules, and their basic applications in the analysis of series, parallel and series-parallel circuits. The fundamental Network Theorems, Superposition, Thevenin's and Norton's equivalent circuits and Maximum Power Transfer. AS signal waveforms and their Average and RMS value, alternating current, voltage and power resistors, capacitors and inductors in AC circuits, ideal transformers and the concept of resonance. Introduction to the operation and basic applications of first order passive, low and high pass, RC filters. Corequisite(s): MTH 129, EET 104L
Credits: Credits:3 (3,2)

EET 105 Introduction to Digital Electronics
An introduction to the fundamental concepts of Digital Electronics. Topics covered: Number systems, Boolean Algebra, Logic Gates, Combinational Circuits, Karnaugh Map Minimization Techniques, Adders, Signed Numbers, Multiplexers, Code-Converters, Decoders, Encoders, Comparators and 7-segment displays. The laboratory component of the course reinforces the topics covered in the theory through relevant experiments performed by students using logic trainers. Corequisite(s): EET 111 or EET 104
Course Offered: Fall, Spring
Credits: Credits:2 (1,3)

EET 110 Computer Applications
An introduction to computer programming with applications. Examples and assignments are drawn from problems in Electrical and Computer Engineering Technology. The course uses Windows based PCs, the "C/C++" programming language (visual C++), and IEEE-488 Standard interfacing to programmable instrumentation. Corequisite: EET 111
Course Offered: Fall, Spring
Credits: Credits:2 (1,2)

EET 111 Electric Circuits I
A basic course in direct current circuit theory. Concepts of charge, current and voltage; Ohm's Law, Kirchoff's Laws; analysis of series, parallel, and combination circuits; mesh and nodal analysis; Superposition, Thevenin's and Norton's theorems; maximum power transfer theorem; electric fields and capacitance; magnetic fields and inductance; analysis of R-C and R-L switching networks. The laboratory is coordinated with, and supports, the theory course. Corequisite(s): MTH 129, EET 111L
Course Offered: Fall, Spring
Credits: Credits:3 (3,2,1)

EET 113 Electric Circuits II
This is the second of a two-course sequence designed to provide the background needed to analyze electric networks. Topics covered in this course include sinusoidal waveforms and non-sinusoidal waveforms; the phasor representation of sinusoidal signals; the use of complex numbers to analyze R-C, R-L, and R-L-C networks under sinusoidal steady-state conditions; series and parallel resonance; average power calculations; simple passive filters, frequency response (dB magnitude and phase) and its relations to the step response of simple R-C, R-L and R-L-C networks; transformer principles and types of transformers; three phase balance systems. Prerequisite(s): EET 111 and MTH 129
Course Offered: Spring, Summer
Credits: Credits:3 (3,2,1)

EET 118 Semiconductor Devices and Circuits
Fundamentals of semiconductor diodes and bipolar junction transistors are discussed in this course. Topics covered include: Q point operating conditions of semiconductor diodes in various circuit configurations, full and half-wave rectification, capacitor input filters, Zener diodes and basic linear DC power supply configurations. Q point operating conditions of BJT transistors in various bias configurations are analyzed as well as small signal single-stage and multi-stage amplifiers at mid-band frequencies in terms of voltage gain, current gain, power gain, input impedance, output impedance, AC load lines and signal node voltages. Corequisite(s): EET 113
Course Offered: Spring, Summer

Credits: Credits:3 (3,3)

EET 191 Electric Circuits Concepts and Components
An introductory lecture/demonstration course in the terminology, concepts, and components of electric circuits. The aim is to give students from other disciplines (e.g. Office Management, Nursing, etc.) sufficient knowledge and understanding to effectively communicate with technical specialists in this field. Prerequisite(s): Sequential (Integrated) Math 1
Credits: Credits:4 (4,0)

EET 200 Electronic Devices & Circuits
Principles and characteristics of semiconductor devices and linear integrated circuits are discussed. Devices studied include: Semiconductor diodes, Zener diodes, bipolar junction transistors, photodiodes and transistors, field- effect and metal oxide semiconductor transistors, thyristors , and operational amplifiers in various DC power supply, small signal and power amplifier configurations as well as wave shaping circuits. Simulation software will be used throughout the course in both theory and laboratory exercises. Prerequisite(s): EET 104
Credits: Credits:4 (3,2)

EET 223 Digital Electronics
Analysis and design of combinational and sequential logic circuits. SSI and MSI circuits; flip-flops, counters, and shift registers; integrated circuit families; multiplexers; semiconductor memory devices; D/A and A/D converters. The associated laboratory reinforces the topics covered in the theory through relevant experiments performed by the student. A formal report is part of the laboratory requirement. Prerequisite(s): EET 105
Corequisite(s): EET 223L, 118
Course Offered: Fall
Credits: Credits:3 (3,2)

EET 224 Amplifiers
Signal parameters of Class A and Class B power amplifiers as well as operational amplifiers are studied in this course. Topics covered include, efficiency, dB, dBm, heat sinks, JFET and MOSFET transistors, operational amplifiers, and the frequency response of amplifier circuits. In addition, operational amplifier characteristics and models are used in the analysis of open loop and closed loop amplifiers. Adders, subtractors, active filters, comparators, differentiators, integrators, and the Schmitt trigger are also studied. Feedback concepts and the effect of feedback on gain, impedance and frequency response of amplifiers are studied as well as circuit stability, gain, and phase margins. Simulation software is used in the analysis of operating conditions and frequency response of amplifiers. Formal Report writing is part of the Laboratory requirement. Prerequisite(s): EET 118
Corequisite(s): EET 110, MTH 130
Course Offered: Fall
Credits: Credits:3 (3,3)

EET 225 Communications Electronics
An introduction to communication signals and circuits. Topics include: filters, simple audio and RF oscillators, interpretation and application of Fourier series; mathematics of amplitude; frequency and phase modulation; basic transmitter circuitry; superheterodyne receivers for various modulation methods; multiplexing techniques including FM stereo multiplexing. Introduction to Digital Transmission Techniques as time permits. Prerequisite(s): EET 224
Course Offered: Spring
Credits: Credits:3 (3,3)

EET 251 Microprocessors
Fundamental microprocessor and microcontroller concepts; architecture, memory, memory interfacing, programming, signals, timing, delay calculations, I/O interfacing and interrupts. The students will be required to interface input and output devices to the embedded controller and quantify associated hardware/software trade-offs. Laboratory work requires programming in assembly language and in C/C++. Prerequisite(s): EET 223
Course Offered: Spring
Credits: Credits:3 (2,3)

EET 301 Off-Shore Wind Power Technology
This course will deliver concepts related to the operation, maintenance and challenges of wind turbine energy production under offshore conditions. This course explores the main electrical components of Wind Energy Conversion Systems (WECS) including the generator and power converter interfaces for fixed and variable speed operations, as well as critical aerodynamical power controls for performance and efficiency such as stall and pitch angle controls and grid codes. In addition, this course explores mechanical components related to hydraulic brake systems used in on-land and offshore wind turbine systems and critical maintenance practices of the overall mechanical operations of the wind turbine. Students will also be trained to troubleshoot key problems related to the assembly and installation of offshore wind turbine systems. A laboratory component will be offered along with this course to provide hands-on technical training, aligned with the topics covered in class. Prerequisite(s): EET 111 or MET 230
Credits: Credits:3 (2,2)

EET 311 Network Analysis
A calculus based network analysis course that introduces the use of Laplace transforms in the analysis of both active and passive lumped parameter time-invariant linear networks. Topics covered include Mesh and Nodal analysis using matrix formulations; the network theorems; impedance and the modeling of initial conditions; first and second order systems; transfer functions; poles and zeros; impulse and step response; forced and natural response as well as system stability and time domain response. The sinusoidal steady state (AC) phasor transformation and its relation to the Laplace transform and the frequency response of networks are also included. The laboratory utilizes simulation of electric networks.
Corequisite(s): MTH 236, EET 311L
Course Offered: Fall, Spring
Credits: Credits:4 (3,2)

EET 316 Digital Design
Introduction to Digital Design using FPGA (Field Programmable Gate Arrays) and VHDL (Hardware Description Languages). The FPGA circuits are designed using Schematic Capture as well as VHDL. The target chips are Xilinx FPGAs and Xilinx tools are used to simulate and to "place and route" the design. Designs are then tested using FPGA based platforms.
Prerequisite(s): EET 223
Course Offered: Fall, Spring
Credits: Credits:4 (3,3)

EET 317 Industrial Electronics
Selected topics involving Difference and Instrumentation amplifiers with Transducer Bridge applications. Linear and Switching mode regulated power supply operation with analysis and design techniques using existing industrial ICs Thyristor characteristics with SCR, DIAC and TRIAC applications in power control circuits. Theory concepts are illustrated in the laboratory. Formal report writing is part of the laboratory requirement. Prerequisite(s): EET 224
Course Offered: Fall
Credits: Credits:4 (3,2)

EET 327 Signal Processing
The course will provide the students with an introduction to continuous-time and discrete-time signals and systems. Topics to be covered include: Linear Time-Invariant (LTI) systems, Laplace transforms, transfer function, impulse and step response, transient and steady state responses, frequency response, Bode plots, passive and active filters, modulation, oscillators. Fourier series and Fourier transforms, power spectral density and Parseval's theorem. Random signals and noise. Signal-to-noise ratio. Discrete-time signals. Sampling, filtering, convolution, Discrete Fourier Transform (DFT), Fast Fourier Transform (FFT) algorithms, and the z-transform. The use of MATLAB is integrated throughout the course in laboratory exercises, demonstrations and student projects. Prerequisite(s): EET 311
Course Offered: Spring
Credits: Credits:4 (3,3)

EET 330 RF Technology I
This course provides the applications and practical knowledge in RF technology. The course also integrates the essential measurement equipment and techniques used in RF technology such as RF signal generator, spectrum analyzer, and vector network analyzer with various hands-on lab exercises to help students be competent with the equipment. The topics covered in the course include RF power calculations, complex impedances, impedance matching, network analysis using s-parameters and Smith chart, signal modulation and measurement techniques, and link budgets. This course is an integrated lecture/lab class. Prerequisite(s): EET 225 with a grade of C or higher or department approval
Credits: Credits:3 (2,2)

EET 414 Transmission Lines and Antennas
Introduction to transmission lines. Transient response for conditions of matched and mismatched impedance. Definition of reflection and

transmission coefficients. Sinusoidal signals, standing wave ratio and use of the Smith chart. Power measurement. Introduction to antennas. Radiation pattern and impedance of simple dipole antennas. Formal laboratory report writing required. Prerequisite(s): EET 225
Course Offered: Fall
Credits: Credits:4 (3,2)

EET 418 Microprocessor Interfacing and Control
This course covers an in-depth study of microprocessor systems by exploring the internal functions of a computer. Hardware and software capabilities are studied in order to build a foundation for the design and interfacing of microprocessor based systems using real world examples. Assembly as well as a high-level language such as "C++" is used in various programming projects and in interfacing devices. Prerequisite(s): EET 110 and EET 251
Course Offered: Fall
Credits: Credits:4 (3,2)

EET 420 Linear Systems and Controls
This course covers the principles and characteristics of continuous time invariant linear systems and controls as well as the basic performance parameters and analysis techniques of such systems. Topics include: Review of Laplace Transforms and their applications in analyzing the performance of systems in terms of their impulse and step response; block diagram models, signal flow graphs, and state variable representation of systems; second order active filters and the performance characteristics of second order systems in terms of overshoot, speed and setting time. Feedback Control System characteristics, the Routh-Hurwitz stability criteria, and the application of Root Locus and Frequency Response techniques in the analysis of control systems are also covered. The laboratory utilizes MATLAB to demonstrate and enhance the theory principles covered in the lecture portion of the course. Prerequisite(s): EET 311 Corequisite(s): MTH 245
Course Offered: Fall
Credits: Credits:4 (3,2)

EET 426 Digital Communications
An introduction to digital communications systems. Topics covered include; the sampling theorem; PCM systems; synchronization techniques; noise analysis and reduction; FSK; PSK; bit error rates; hamming codes; and an introduction to fiber optic systems. Prerequisite(s): EET 225
Course Offered: Spring
Credits: Credits:3 (3,0)

EET 430 RF Technology II
This course builds upon the knowledge and skills learned in EET 330, RF Technology I. The course provides in-depth and practical knowledge of more complex RF devices and components used in RF technology that are not covered in EET 330. The course has hands-on laboratory exercises that feature advanced RF measurement techniques that require multiple measurement equipment and comprehensive analysis of measured data. The topics covered in the course include architectures and performances of transmitters, receivers, and transceivers, RF filters, oscillators, RF amplifiers, low noise amplifiers, noise analysis, antennas, coax cables, signal combiners/dividers, and microwave components. This course is an integrated lecture/lab class. Prerequisite(s): EET 330 with a grade of C or higher
Credits: Credits:3 (2,2)

EET 440 Data Communications and Networking
This course covers the basic concepts of networking and computer connectivity. Several network topologies and related media access techniques are explored. The rudiments of Data Communications and Open System Interconnection (OSI) are discussed in detail. Students will learn the components of a client server networks using the Novell's Net Ware/ Intra Net Ware. Certain protocols such as TCP/IP and SPX/IPX are also discussed. Laboratory experiments are designed to give students a hands on experience in Network administration, configuration and resource management. Completion of this course includes a final project related to the design of a local area network, complete with Layers I and II, as well as the Directory Tree Structure based on the netware. An oral presentation by each student of their project is required. Prerequisite(s): Knowledge of digital electronics; familiarity with a real time operating system; ability to program in a high level language. Chair approval.
Course Offered: Fall, Spring
Credits: Credits:4 (3,3)

EET 441 Advanced Networking
This course is a continuation of EET 440, Networking and Data Communications. The principles of Architecture Layering, Multiplexing and Encapsulation are discussed. TCP/IP, IPX, PPP, ISDN and Frame Relay Protocols are covered. Network equipment such as repeaters, bridges router hubs and switches are studied in detail. Equipment examples are drawn from key vendors such as CISCO, 3COM and Cabletron. The laboratory portion of the course will concentrate on experiments and projects designed using CISCO Systems networking equipment, such as 2500 and 2600 series routers, 1900 and 2900 catalysts switches. The students will also learn how to design networks using VLANS on the above-mentioned equipment. Prerequisite(s): EET 440
Course Offered: Fall, Spring
Credits: Credits:4 (3,3)

EET 450 Design Concepts
General design considerations and concepts with particular emphasis in "worst case" design and "optimum" design. Case studies will be provided through examples of different areas of Electrical Engineering Technology. Product development procedures and processes will be presented along with testing and costing considerations. By the end of this course students must select their senior design project for EET 452W and must submit an appropriate proposal. Prerequisite(s): Completion of junior level EET courses or Department permission.
Course Offered: Fall, Spring
Credits: Credits:2 (2,0)

EET 452W Design Project (Writing Intensive)
The student's overall technical knowledge is applied to this "capstone" design project under the supervision of faculty. A complete oral and written presentation is required of each student explaining the design process and specifications, cost considerations, testing and/or computer simulation results when appropriate. Note: Students will be expected to write short exercises, as well as longer papers that will be revised and graded. This is a writing-intensive course. Note: EET 452W can be used to fulfill the writing intensive requirement. Prerequisite(s): EET 450 and EGL 101 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:2 (1,2)

EET 490 Selected Topics in Electrical Engineering Technology
Courses that range from 490-499 are selected topics of current interest in Computer and/or Electrical Engineering Technology. Prerequisite(s): Contingent upon selected topic
Course Offered: Fall
Credits: Credits:3 (2,3)

EET 491 Selected Topics in Electrical Engineering Technology
Courses that range from 490-499 are selected topics of current interest in Computer and/or Electrical Engineering Technology. Prerequisite(s): Contingent upon selected topic
Course Offered: Fall
Credits: Credits:3 (2,3)

EET 492 Selected Topics in Electrical Engineering Technology
Courses that range from 490-499 are selected topics of current interest in Computer and/or Electrical Engineering Technology. Prerequisite(s): Contingent upon selected topic
Course Offered: Spring
Credits: Credits:3 (2,3)

EET 493 Selected Topics in Electrical Engineering Technology
Courses that range from 490-499 are selected topics of current interest in Computer and/or Electrical Engineering Technology. Prerequisite(s): Contingent upon selected topic
Course Offered: Spring
Credits: Credits:3 (3,0)

ENGLISH (EGL)

EGL 101 Composition I: College Writing
This is the first part of a required sequence in college essay writing. Students learn to view writing as a process that involves generating ideas, formulating and developing a thesis, structuring paragraphs and essays, as well as revising and editing drafts. The focus is on the development of critical and analytical thinking. Students also learn the correct and

ethical use of print and electronic sources. At least one research paper is required. A grade of C or higher is a graduation requirement. Note: Students with an ELA-Regents score of 83 and higher or a Guided Placement (GP) recommendation will register for 101. Note: Students cannot earn credit for EGL 101 if EGL 101E was taken.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

EGL 101E Composition I: College Writing (Enhanced)
This is the first part of a required sequence, EGL 101 and EGL 102, in college essay writing. Students will learn to approach writing as a recursive process that involves generating ideas, formulating and developing a thesis, structuring paragraphs and essays, as well as revising and editing drafts. The focus of this course is on the development of critical and analytical thinking. Students will also learn the correct and ethical use of print and electronic sources. Research papers are required. Students are required to participate in an additional practicum hour of class. Note: Students with an ELA-Regents score of 70 and below or a Guided Placement (GP) recommendation will register for 101E. Note: This section of EGL 101 provides additional support from your instructor in addition to class time. English 101E students participate in one-hour sessions on their assigned day and time, and participation is required to pass EGL 101E with a C or higher and progress to EGL 102. Both EGL 101 and EGL 102 are required for graduation. Note: Students cannot earn credit for EGL 101E if EGL 101 was taken.
Credits: Credits:3 (3,0,1)

EGL 102 Composition II: Writing About Literature
This is the second part of the required introductory English composition sequence. This course builds on writing skills developed in EGL 101, specifically the ability to write analytical and persuasive essays and to use research materials correctly and effectively. Students read selections from different literary genres (poetry, drama, and narrative fiction). Selections from the literature provide the basis for analytical and critical essays that explore the ways writers use works of the imagination to explore human experience. Grade of C or higher is a graduation requirement. Prerequisite(s): EGL 101 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 102H Composition II: Writing-Honors
This is the second part of the required introductory English composition sequence. This course builds on writing skills developed in EGL 101, specifically the ability to write analytical and persuasive essays and to use research materials correctly and effectively. Students read selections from different literary genres (poetry, drama, and narrative fiction). Selections from the literature provide the basis for analytical and critical essays that explore the ways writers use works of the imagination to explore the human experience. This course is restricted to students in the Honors Program. Students who have taken EGL 102 cannot get credit for EGL 102 Honors. Prerequisites: EGL 101 with a grade of C or better
Credits: Credits:3 (3,0)

EGL 200 Shakespeare
A survey of representative comedies, tragedies, romances, and histories showing Shakespeare's dramatic variety. Acting styles are emphasized with the use of recordings, tapes and, when possible, live performances. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

EGL 201 English Literature: Old English through the 18th Century
A historical survey of English literature from the beginnings to neoclassicism. Consideration is given to Anglo-Saxon and medieval writers, Chaucer, Elizabethan and Jacobean writers, Shakespeare, Milton, and the writers of the Age of Reason. English history, religion, and philosophy are studied as they relate to literature. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

EGL 202 English Literature: 19th Century to the Present
An historical survey of Romantic, Victorian and Modernist literature. Emphasis is placed on the development and continuity of literary traditions. Prerequisite(s): EGL 102 with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

EGL 203 American Literature: Beginnings to 1865
An examination of major historical and new canonical American authors; genres, and periods of the seventeenth, eighteenth, and part of the nineteenth centuries up to the Civil War. An analysis of the works of writers of the New Republic, the Revolutionary and Federalist periods of the eighteenth century, as well as the emerging national literatures of indigenous and colonizing groups; the ages of Transcendentalism, American Gothic, early Realism as well as the works of Native American, Feminist, African-American, Abolitionist, Frontier and Civil War writers will be considered. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring
Credits: Credits:3 (3,0)

EGL 204 American Literature: 1865 to the Present
An examination of major historical and new canonical American authors, genres and periods of the era from the Civil War through the twenty-first century. An analysis of such trends as Realism, Naturalism, immigrant literature, the regional and local color movements, as well as the rise of biographical genres, and the influence of psychology and technology on literature will be made. Modernism, the renaissance in American poetry, the Harlem Renaissance, and the literature of social critique will also be examined. Note: Students cannot get credit for EGL 204 and 204W; EGL 204W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 206 World Literature: Early Classics
An introduction to Western and non-Western literature from earliest times through the seventeenth century. Included are works from ancient Greece and Rome, Medieval and Renaissance Europe, the Middle East, Africa, China, and India. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 207 World Literature: The Moderns
An introduction to Western and non-Western literature from the eighteenth century through the twentieth century. Included are works from authors of the Enlightenment, the Romantic and Realist Movements, and the twentieth century from the Continent and the Third World. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 210 Introduction to Drama
A survey of Western drama stressing close reading of plays from ancient Greece, Elizabethan and Restoration England, nineteenth-century Scandinavia and Russia, and twentieth-century Britain and America. The changing concepts of comedy and tragedy are discussed. Note: Students cannot get credit for EGL 210 and 210W; EGL 210W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 211 Children in American Literature
This course reexamines representations of children in works by major American authors. Questions about how child characters reflect and challenge gendered, racial, and familial norms in American society are explored. Additional themes explored may include, but are not limited to, child protection and the "American Dream." Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 212 Introduction to Fiction
A survey of American, British, and continental prose fiction. An understanding of the critical theory of such works is stressed. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 213 Contemporary Jewish American Fiction
This course examines "Jewish American" identities as represented in fictional literature about Jewish family life in America, with a focus on topics including (but not limited to) the impacts of antisemitism, the Holocaust, and the evolution of American culture. Texts explored are written

by both Jewish and non-Jewish authors. Students will explore different understandings and depictions of Jewish-Americanness from the 1950s to today. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 214 Introduction to Poetry
A survey of English language poetry. Selected works of both traditional and contemporary poets are analyzed and discussed. Note: Students cannot get credit for EGL 214 and 214W; EGL 214W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 216 Creative Writing
An introduction to a wide spectrum of written formats, especially those employed by writers of fiction and poetry. Students read in these genres and submit a short written piece, in either genre, for each class. In addition, students complete a major project in their chosen area. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 221 Dystopian Film and Literature
This course introduces students to major themes in dystopian film and literature. Special attention is paid to the types of dystopian narratives, how they are artistically depicted in various media, and how they offer criticism of societies that produce them. Analysis of dystopian film and literature in this class will be supported by relevant theory drawn from cultural studies and related fields. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 222 Women in Literature
An exploration of the position of women in various cultures as interpreted by major world writers. Focus is on the female protagonist's attainment of goals in marriage, family, and work. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 225 Images of Women in Drama
A study of images of women in Western drama from ancient times to the present. This course will consider the development of drama as a popular art form reflecting gender issues of its time. NOTE: Students cannot earn credit for EGL 225 and 225W or EGL 225*D EGL 225W can be used to fulfill the writing intensive requirement. EGL 225*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Summer
Credits: Credits:3 (3,0)

EGL 226 Journalism
An introduction to practical journalism in which students write news and feature stories, editorials, and reviews, and examine techniques of newspaper design and photography. Classes include readings and discussions in the theory of mass communications. Student materials may be printed in campus publications. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

EGL 228 Classics and Mythology in Popular Culture
This course presents a cross-cultural and cross-disciplinary examination of the meaning and value of such myths as those of the creation, the flood, and the hero, and their depiction in literature, art, film, and music from the ancient past to the present. Students will acquire an understanding of the uses of mythical themes and archetypes both in ancient art and literature as well as in modern art, literature, and film. Course work includes assigned readings, film screenings, informal journals, a formal paper and exams. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 230 Literature of the Bible
A study of the origins, themes, and history of Biblical literature based on the new international version of the Bible. Later literature and other arts influenced by the Bible are included. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 232 Voices of Multicultural America
A study of selected fiction, poetry, autobiography and memoirs of American immigrants of the 20th and 21st centuries. The thematic focus of this course is the way in which writers from different cultures shape the stories of their lives, particularly as they encounter the realities of American experience and test the truth of their American dreams. Lecture and discussion of individual writers will address the different genres and styles used by these immigrant writers as well as thematic parallels and differences between writers from different cultural backgrounds. Readings may vary each semester but will reflect the cultural diversity of American immigrant writing, including writing by Caribbean writers, Asian-Americans, Latino Americanos, Jewish, Italian, Irish, and other Eastern European immigrants. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 235 Caribbean Literature
This course examines the literature of the Caribbean region. Artistic works including primarily novel and poetry will be emphasized as will theoretical writings that consider cultural production in the context of transnational migrations, colonization and decolonization, globalization, the African diaspora, the trans-Atlantic slave trade, and intersections of race, ethnicity, gender, sexuality, and class. NOTE: Students cannot earn credit for EGL 235 and EGL 235*D EGL 235*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 239 Television, Genre, and Culture
Television has long been a powerful force in shaping cultural values, social norms, and public discourse. This course examines the impact of television on society through critical analysis and writing. Students will explore how television reflects and influences issues such as race, gender, class, politics, and consumer culture, while also considering its evolution from traditional broadcast networks to the streaming era. Through a combination of academic writing and oral presentation students will engage with television as a cultural artifact and a narrative medium. Readings will cover media theory, cultural criticism, and historical perspectives, providing students with the tools to write thoughtfully and persuasively about television's societal impact. By the end of the course, students will have honed their critical thinking and writing skills while developing a deeper understanding of television's influence on contemporary culture. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 240 Themes in Science Fiction in Film and Literature
An exploration of how writers of science fiction have used science and technology to examine moral questions, social issues and the boundaries of technology. Readings of selected authors will focus on the ways creative writers have explored various aspects of the genre, including scientific experimentation, alternate time/space continuum, weaponry, psychic phenomena, cyberspace, bionics, alien life and the future. The class will also view cinematic adaptations of the selected works to examine whether/how the change of medium affects the emphasis and impact of the work and how visualization and special effects affect the audience's perception. Course work includes assigned readings, film screenings, informal journals, and formal papers. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Summer
Credits: Credits:3 (3,0)

EGL 242 Film and Literature
Students will read selected short fiction and novels by English, American and other writers and view the films that have been made from them by prominent directors. The course will develop students' understanding and appreciation of both literature and film. Students will examine how great writers elicit the complex response they do from their readers, and then explore the ways that film provides an interpretation of literature. Analysis and discussion will center on how the visual media shapes literature as various directors adapt texts for the screen. The ability to interpret the texts and films appreciatively and critically will be assessed through a series of class projects and examinations. Note: Students cannot get credit for EGL 242 and 242W; EGL 242W can be used to fulfill the writing intensive

requirement. Note: Offered at the discretion of the English Department
Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

EGL 244 Classics of Supernatural Film and Literature
This course engages students in the principle forms of artistic expression integral to classic works of supernatural literature and their cinematic adaptations. Students will acquire an understanding of the creative process inherent in these works, an understanding of the literary and cinematic conventions of the genre and will also develop a critical vocabulary that will allow them to discuss and to evaluate these works and others in depth. Cinematic adaptations of these works in particular follow the evolution of the cinema itself; thus students in this course will also gain a critical understanding of its aesthetic and technological development. This course will also focus on film composition, including the shots, angles, iconography and editing typical of this genre. Course work includes assigned readings, informal and formal papers requiring primary and secondary research, critical analysis of required screenings, and exams. Students will be required to attend and to complete critical analyses of campus and off-campus theatrical screenings as they are scheduled. Note: Students cannot get credit for EGL 244 and 244W; EGL 244W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

EGL 246 Themes in Literature
This course will enable students to explore a major literary theme. The theme may vary in different semesters or in different sections of the course during a single semester. Themes may include nature writings, literature of the Holocaust, literature of the American West, and Long Island in fiction, among others. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 250 Young Adult Literature
Students will trace the historical and psychological development of the concept of "adolescence" by studying the canonical literature for young adults that shaped cultural ideas of adolescence. Students will read a wide representation of classic 20th century Young Adult authors, including Judy Blume, Robert Cormier, Chris Crutcher, Paula Danziger, S.E. Hinton, Harper Lee, Lois Lowry, Patricia MacLachlan, Walter Dean Meyers, Gary Paulsen, Cynthia Voigt, and Paul Zindel. The class focuses on the literary analysis of different Young Adult genres: dystopia, fantasy, historical fiction, realism, nonfiction, photojournalism, and graphic novels. Class is conducted through the innovative method of reading circles, and so requires active student participation. Note: Students cannot get credit for EGL 250 and 250W; EGL 250W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

EGL 255 Children's Literature
Students will trace the historical and psychological development of the concept of childhood by studying the canonical literature for children that shaped cultural ideas of childhood. Students will read a wide representation of classic and contemporary "children's" literature including fairy tales, fantasy, poetry, adventure stories, historical fiction, and picture books. The class focuses on the literary analysis of different genres in children's literature. Prerequisite(s): EGL 101 and EGL 102
Course Offered: Fall
Credits: Credits:3 (3,0)

EGL 266 Fantasy in Literature and Film
Fantasy in Literature and Film examines not only the oldest literary genre but one that continues to fascinate readers old and young and to inspire some of the most innovative and technically sophisticated films. Works of fantasy overlap other genres: myth, fairy tales, epic sagas, tales of the grotesque, juvenilia, adventure stories, and some science fiction. However, fantasy is the study of what can never actually be real, that is, what we dream about or can only imagine. Readings include traditional works of fantasy from the earliest recorded texts as well as beloved children's and young adult "classics" of this genre. Film adaptations as well as original films in this genre will also be analyzed and critiqued. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

EGL 269 The Romantic Arts: Art, Dance, Literature and Music
This course examines the art, dance, literature and music of the Romantic Period of each of the disciplines. Students will acquire an understanding of the aesthetic concerns of each of these art forms in the period in which they were created and develop a critical vocabulary that will allow them to better understand, evaluate, and discuss the works in depth. Course work includes readings, field trips to art exhibits and performances, and extensive use of audio-visual materials. The course will require both informal and formal papers that utilize primary and secondary research materials. By examining multiple art forms, students will develop greater aesthetic and critical understanding of the art forms of the Romantic period included in the course study. Note: Students cannot get credit for EGL 269 and 269W; EGL 269W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

EGL 301 Advanced Grammar and Vocabulary
Students will master a study of descriptive and prescriptive English grammar and will become familiar with concepts of linguistics and semiology. Students will expand their vocabulary by learning the use of a broad range of words and by understanding their etymological roots, their appropriateness to situation and audience, and their function in smooth syntax. Students will develop skills leading to the use of precise, concise prose style. Mastery of grammar, vocabulary and style is essential to professional-level reading, writing, speaking, listening, and editing. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

EGL 302 The 19th Century English Novel
Select novels by major British authors of the nineteenth century, such as Austen, the Brontes, Mary Shelley, Dickens, Thackeray, George Eliot, Trollope, Hardy and Conrad, are read. Attention is given to the social, economic, political and intellectual backdrop informing the content of the novels. Secondary sources are required. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 303 Writing for the 21st Century
Writing for the 21st Century explores the many modes of expression that are available to writers, speakers, and thinkers, including auditory, visual, gestural, and spatial acts of communication. A central goal of this course is to make deliberate use of these modes and design choices in relationship to specific purposes and audiences. To do so, students will critically analyze the ways these varied modes are employed, as well as produce texts that deploy these for specific contexts, audiences, and situations in order to effectively inform, persuade, and communicate. After completing this course, students should feel confident in their ability to transfer information using twenty-first century technology and possess skills that will assist in their future academic and professional lives. Prerequisite(s): EGL 101 and EGL 102 with a grade of C or higher.
Credits: Credits:3 (3,0)

EGL 307 Special Topics in Literature
This course will enable students to explore intensively a major author or literary theme, period or genre. The subject for a particular semester will be announced prior to registration. Topics may include love, lust and marriage; persuasion and propaganda; and World War I writers, among others. Short papers involving secondary sources will be required. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

EGL 308 The City In Literature, Art, Film and Theatre
This course examines depictions and interpretations of the city through literature, film, theatre, photography, painting, sculpture and architecture. Initially, the focus will be on New York City, although subsequent semesters, it may extend to other major world cities such as London, Paris, Rome, or Athens. Students will gain an understanding of the aesthetic value of the different art forms as well as develop the critical vocabulary to help them evaluate the various literary and artistic works. Course work includes assigned readings, field trips to museums in New York City, and extensive use of audio-visual material. Both informal writing (response journals) and more formal papers, including a research paper utilizing primary research (photographs, maps, interviews with artists, slides etc.) and secondary

critical and/or historical studies will be required. Note: Students cannot get credit for EGL 308 and 308W; EGL 308W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 309 Voices of Black America in Poetry, Prose and Song
A study of the oral and literary tradition of African Americans in poetry, prose and song. This course provides both a historical examination of the written and oral tradition of African Americans in its own right and as a lens through which American culture can be viewed. The course will explore the developing aesthetic concerns of this tradition in different historical periods as, for example, the question of dialect before, during and after the Harlem Renaissance and the later Black Arts movement up through contemporary rap. Students will also consider how many texts by African Americans combine literary and musical forms, particularly spirituals, blues, jazz, hip hop and rap. Critical readings and research project required. Students who have completed EGL 224 may not receive credit for this course. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 310 Technical Writing
A detailed study of the fundamentals of writing technical reports and other technical communications. Topics emphasized include the elements of a technical report, the interpretation of statistics and data, and the composition of letters, memos, and informal reports containing technical information. Assignments and student exercises are drawn from the student's technical area. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

EGL 312 Major Authors in American Literature
An in-depth examination of the major trends in American Literature as reflected specifically through the works of individual authors. The instructor will select the two or three authors to be studied each semester. Secondary sources, a major research project, and an annotated bibliography of criticism of a particular work will be required. Note: Students cannot get credit for EGL 312 and 312W; EGL 312W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 314 Major Authors in World Literature
An in-depth examination of major trends in world literature as reflected through the works of individual authors. One to three authors are studied each semester. Requirements include a substantial research project involving critical research. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 316 Women in Modern Literature
In this course students will examine major American texts by women writers from the beginning of first wave feminism to the present. While most of the works studied will be narrative fiction, some non-fiction, drama, poetry, and memoirs are included. Themes addressed in this course include women's relation to work, religion, nature, marriage and family, their struggle for voting rights, equal treatment under the law, and as immigrants to America from different cultures. The focus of the course is the ways in which literary works both reflect and help to shape the history and culture of America. This includes examination of how particular genres, styles of writing, and literary techniques are utilized by the writers covered in this selective survey of American women writers. Note: Students cannot get credit for EGL 316 and 316W; EGL 316W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the English Department Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 317 Studies in Shakespeare
An analysis of Shakespearean plays, along with their sources, the early modern period in England, and traditional and contemporary critical commentary. Four or five plays will be studied each semester. Requirements will include examinations and analysis of plays. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

EGL 318 Advanced Creative Writing
An intensive workshop experience in which students are taught to recognize and appreciate excellence in the poetry and fiction of significant contemporary writers, and to produce polished works in these genres. Students will be required to keep a formal writer's journal and to participate in formal readings of their works, as well as provide pertinent critical evaluations of the writing of others. Prerequisite(s): EGL 216 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 319 Modern Drama
This course provides an in-depth examination of representative plays of Modern Drama (late nineteenth century through the twentieth century), focusing on such literary movements as realism, expressionism, relativism, epic theater, theater of the absurd, and focusing on the historical and cultural context of the different literary movements and the representative plays. Requirements include a research project involving traditional and contemporary criticism. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Summer
Credits: Credits:3 (3,0)

EGL 322 Leadership in Fact, Fiction and Film
Leadership in Fiction, Fact, and Film examines various fiction and non-fiction materials from a business perspective. Students will explore leadership, ethics/values, motivation, interpersonal skills, power/authority, communication, gender roles, empowerment, change, etc., as these concepts are demonstrated in these various works. Students will analyze the problems in the materials and apply them to modern-day corporate work situations, reflecting upon how these works are practical and functional to successful management tasks, responsibilities, and leadership. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 323 Major Authors in British Literature
An in-depth examination of major trends in British literature as reflected through the works of individual authors. One to three authors are studied in depth each semester. Requirements include a research project involving traditional and contemporary criticism. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

EGL 325 African American Literature
An in-depth study of the oral and literary traditions of African American literature, this course examines the aesthetic development of these traditions, their contribution to American culture, and the historical contexts that give rise to them. Students will explore the cross-pollination and intertextuality of a variety of literary forms, including primarily poetry, prose, drama, and music. Critical readings and a research project will be required. NOTE: Students cannot earn credit for EGL 325 and EGL 325*D EGL 325*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

EGL 326 Advocacy and Social Justice
Using historic literature and theory-based texts from the humanities, this course introduces students to advocacy strategies used to advance interests of underserved and underrepresented groups in local and national settings. Students will reflect upon and interpret historic and theoretical texts in advocacy, research contemporary local and national advocacy groups, and compose their own advocacy strategies rooted in humanistic knowledge. Special attention will be paid to the origins of social justice issues, who is involved, and ethical advocacy practices. Prerequisite(s): EGL 102 with a grade of C or higher.
Credits: Credits:3 (3,0)

EGL 330 Classical Greek Tragedy: Aeschylus, Sophocles and Euripides
This course introduces students to the Classical Greek Theater and its three great Athenian tragedians: Aeschylus, Sophocles, and Euripides through close readings of surviving texts in translation and through viewings of modern productions of these ancient theatrical works. Focusing on these

playwrights' works both as art forms and as products of a specific historical society, the course will address the role this drama played in the lives, culture, and aesthetic sensibilities of the ancient Greeks as well as its role as a living art form in contemporary society. Note: Students cannot get credit for EGL 330 and 330W; EGL 330W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Summer
Credits: Credits:3 (3,0)

EGL 331 Death, Madness and Sex: The Victorians
Focusing on three of the predominant obsessions of Victorian society, this course will study the literary, artistic, and aesthetic explorations of these themes by authors such as Dickens, Stoker, Wilde, Tennyson, Rossetti, and Browning and artists such as Millais, Burne-Jones, Hunt, Leighton, Waterhouse, and Dadd to gain a comprehensive overview of this major literary, artistic, and cultural period. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Summer
Credits: Credits:3 (3,0)

EGL 333 Contemporary Irish Drama in Text and Performance
This course examines the representative plays of the Irish theatrical canon as it has developed throughout the twentieth and twenty-first centuries. Irish theatre has long been associated with the emergence of the Irish Free State from the control of British colonialism. This association makes the study of Irish drama a unique opportunity to explore how theatre reflects and shapes the political and cultural identity of a society. Examining each play within the cultural and historical context in which it was written allows us to see each work as part of a developing literary, social, and political process where issues of nationalism, religion, gender, sexuality, and class intersect in text and performance. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

ENVIRONMENTAL STUDIES (ENV)

ENV 100 Introduction to Electric Circuits
This course is an introduction to the fundamentals and basic principles of DC and AC circuits. The fundamental knowledge acquired in this course can be used to understand AC/DC circuits used in various energy subsystems and to troubleshoot problems that can occur during the operation of these systems. Laboratory activities allow students to gain hands-on experience making measurements on circuits and interpreting the data collected. The students are required to take the laboratory course, ENV 100L as a corequisite. The laboratory exercises provide the students with hands-on-experience on the topics learned from the theory class. Corequisite(s): ENV 100L
Credits: Credits:4 (3,2)

ENV 101 Energy Sustainability and Environment
This is an introductory course to create and enhance the critical awareness of the student regarding various forms of energy, sustainability issues and the impact on the environment through unbridled use of energy in the present day context. A scientific and technological approach is used to discuss various topics. The knowledge base of this course is derived from certain natural sciences such as Physics, Chemistry, Biology and Eco-Science. The main topics of discussion are: Forms of energy, energy conservation, impact on the environment by the use of energy, forms of renewable energy and sustainability issues. The critical policy issues related to energy are also discussed. The course prepares the student to be a fully aware citizen on energy issues facing the community and the world.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ENV 203 Sustainability in Architecture and Construction
This course gives an in-depth introduction and orientation to sustainability in built environment. Some of the areas this course will cover are: sustainable site, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, etc. Prerequisite(s): MTH 117or 129 and departmental approval required.
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

ENV 210 Energy Policy and Standards
This course gives an introduction to energy policy at various levels like the local governments, state and federal governments. Role of Public Service Commission, Inter and intra state energy markets, environmental laws as policy tools for energy generation and distribution are also topics of discussion. Influence of NGOs in shaping the energy policy is discussed. Topics like renewable portfolio standard, feed-in-tariff, distributed generation and its challenges etc. are included. Case studies involving local utilities will be discussed. Prerequisite(s): ENV 101
Credits: Credits:3 (3,0)

ENV 300 Energy and Sustainability
This course provides an introduction to the scientific principles governing energy conversion, use and storage, as well as the fundamental issues involving energy systems and their impact on the environment. The science of energy is covered, including energy sources and forms of energy, topics from thermodynamics and heat transfer, as well as electrical, mechanical and nuclear energy. Energy systems based on fossil fuels and their environmental impact are discussed. Energy efficiency, conservation and issues involving the earth's climate are examined. Sustainability and renewable energy sources, such as, solar energy, hydropower, wind, and geothermal energy are introduced. Energy storage and distribution are also briefly discussed. Prerequisite(s): PHY 136 and Junior level status
Credits: Credits:3 (3,0)

ENV 301 Energy in Electronics and Computer Systems
This course is intended to find ways of building future electronic information processing systems, with major improvements in energy efficiency. In particular new electronic and computer devices extending from low- power nanoelectronic devices, through circuit design, chip- scale architecture, short-range interconnects, long-range interconnect, networks, software, storage systems, servers, green data centers and supercomputers are considered. Prerequisite(s): ENV 210 and Junior-level status.
Credits: Credits:3 (3,0)

ENV 302 Wind Energy
This course provides an overview of sustainable systems of wind renewable energy. Topics include the assessment of wind resources, wind site assessments, identifying and evaluating factors affecting wind energy development, the basic principles of wind turbines, and the environmental impact of assessment processes for wind developments. Prerequisite(s): MTH 110 or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

ENV 303 Energy Storage and EV
Primary energy consumption in the U.S. consists largely of fossil fuel-based sources. Only a small portion of the energy consumed is from renewable sources. Energy storage systems (ESS) have the potential to significantly increase the renewable energy portion of primary energy consumption by overcoming the inherent intermittency and instability of wind and solar. Students will analyze various storage solutions including batteries, superconductor magnetic energy storage systems, flywheels, ultracapacitors, pumped storage power plants, compressed air systems and hydrogen storage from a non-technical perspective. Storage systems will be compared for their feasibility in integrating with the power grid. The applications of energy storage in alternative fuel vehicles, specifically in electric drive vehicles (EV) will also be evaluated. Students will discuss the advantages and disadvantages as well as the environmental impact of existing battery technologies. Policies and incentives related to ESS and EV will also be included in this course. Prerequisite(s): MTH 110 or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

ENV 304 Geothermal Systems
Geothermal energy systems provide heating and cooling by using the relatively constant temperature of the ground. Sustainable and efficient, geothermal systems are crucial in moving toward a fully electrified heating and cooling solution. In this course, students will analyze systems that utilize ground energy and heat pumps to form a ground-source heat pump (GSHP). The elements and components of the GSHP will be discussed, as well as the advantages and disadvantages of using this type of system. Selected topics include materials and methods involved in the design and selection of the GSHP, methods of extracting ground energy, thermal properties of soil and rock, borehole drilling and grouting, piping materials and flow characteristics, sales and marketing, policies and standards, funding opportunities and other incentives of the GSHP. Prerequisite(s): MTH 110 or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

ENV 305 Renewable Energy Systems I
This courses gives an overview of various renewable energy technologies like solar, wind, geothermal, hydro, bio fuels, fuel cells etc. The growth and potential of these technologies along with challenges faced by each of the technologies are discussed. Comparisons are made with conventional energy systems using fossil fuels. Prerequisite(s): ENV 210
Credits: Credits:3 (3,0)

ENV 306 Solar Energy
Solar energy and, in particular, photovoltaics (PV) hold promise for an abundant, clean, renewable energy source to address the ever-increasing demands of modern society. This course uses a qualitative approach to provide students with fundamental knowledge in the field, and the necessary skills to communicate with technical experts. Topics covered include solar radiation characteristics, how sunlight is converted to electricity in a solar cell, aspects in PV system design, solar thermal systems, societal impact, policy issues, and economic considerations. This theory course is augmented by hands-on activities, demonstrations, simulations, and simple experiments using photovoltaic solar cells. Prerequisite(s): MTH 110 or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

ENV 310 Renewable Energy Systems II
This course is a follow up course of Renewable Energy Systems I. This course undertakes detailed study of some of renewable energy technologies like solar, wind energy systems. Design installation and maintenance aspects of renewable energy systems are covered. Cost benefits analysis of energy systems included. Prerequisite(s): ENV 305 and MTH 130
Credits: Credits:3 (3,0)

ENV 450 Capstone Project/Research
Capstone Project/Research course is a project course for Sustainability Energy and Environment Minor programs students. It is a course in which the student works on a self study mode under the supervision of a faculty member in the implementation of an approved design project proposal. At the end of the course students are required to provide a written report and make an oral presentation that addresses areas such as the design process implemented, product specifications, cost analysis, testing and/or computer simulation procedures used in the verification of results obtained as well as ethical and product liability issues addressed. Prerequisite(s): Approval of Advisor of the minor is required.
Credits: Credits:3 (3,0)

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL 091 Beginning English as a Second Language
A beginning course for non-native speakers of English emphasizing basic listening, speaking, reading and writing skills.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0,0)

ESL 092 Intermediate English as a Second Language
A continuation of ESL 091. A course for the student who has attained a degree of fluency in speaking English but needs additional training in reading and writing skills.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ESL 093 Advanced English as a Second Language
A continuation of ESL 092. An advanced course for the non-native speaker of English who has already mastered basic skills. This course is designed to bring the student to the level of proficiency of a credit granting English composition course.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

TECHNOLOGY MANAGEMENT (ETM)

ETM 501 Engineering Quality Management and Reliability
This course covers the normal or Gaussian distribution, standard deviation, and confidence intervals including six-sigma. Advanced statistical concepts and methods are covered with an emphasis on implementation and practical applications. Monitoring and controlling product quality using statistical methods and parametric control charts is an integral part of this course. The principles of reliability engineering and their practical applications, including basic probability models for engineering components and systems failure, are presented with emphasis on practice oriented problem-solving class projects. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall
Credits: Credits:3 (3,0)

ETM 503 Research Methods for Technology Management
This course introduces data based scientific/engineering research methodology. This course includes a systematic literature search process, objective data collection, and research design. The course also includes"inferential statistics such as hypothesis testing and regression analysis. Students are also exposed to various parametric and non-parametric statistical concepts like t-distribution, chi square test etc. Students learn how to put together a research proposal that may result in a full-blown research topic for future course(s). Prerequisite: Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 510 Energy and Power Management Analysis
This course covers the identification and quantification of energy efficiency expressions for various energy sources. Greenhouse gas (GHG) emission and reduction methods and environmental management materials and techniques used in fossil fuel powered systems are discussed. Evaluation and comparison of the economic viability of both renewable and nonrenewable energy technologies, as well as monitoring, targeting, and forecasting (MT&F) their consumption, are integral elements of this course. Energy consumption management methods and techniques to help energy savings are also studied. Prerequisite(s): BUS 502 with a grade of C or better and Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 511 Nanotechnology Principles and Applications
This course provides students with an overview of nanotechnology, covering the fundamental science and the numerous emerging applications of this interdisciplinary new technology. Starting with a discussion of the scientific principles governing nanotechnology, the course then explores novel approaches to making and characterizing nanomaterials and nanosystems. New optical, electrical, physical, and chemical properties of materials at nanoscale that may have a significant beneficial impact are examined. Emerging applications spanning the areas of bioscience, electronics, energy, the environment and others are explored. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall
Credits: Credits:3 (3,0)

ETM 513 Computer Applications in Engineering
This course is geared toward the conceptual design, manufacturing and maintenance of technological devices. Students are introduced to different aspects of computer aided design, including solid mechanics, computational fluid dynamics (CFD), motion analysis and heat transfer. Relevant laboratory activities are conducted to acquaint students with constraint-based reasoning and design optimization. Concepts of computational power, parallel computing and cloud computing will be discussed as well. Laboratory course work furthers the application of theoretical concepts. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator Corequisite: ETM 513L
Course Offered: Spring
Credits: Credits:3 (2,2)

ETM 514 Engineering Analysis
This course examines the concept of engineering analysis. The course focuses on problems drawn from various engineering fields, such as heat transfer, fluid flow, forced oscillations, electric circuits, electric potential, and wave propagation. Topics include matrix algebra, matrix manipulation, application to systems of ordinary differential equations, and vector calculus. Complex numbers and complex analytic methods, matrix algebra packages such as MathCAD, Mathematica, or MATLAB are used. Definitions and basic properties of Legendre, Bessel, and other special functions are covered. Common problems in partial differential equations and solution by separation of variables, Eigen function expansions, Fourier integral, Laplace transform, and Fourier transform also are discussed. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator

Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 520 Control Systems Management
This course covers the principles and applications of time invariant linear control systems. Examples are drawn from electromechanical systems, sensors and actuators, electronic systems, active filters, robotics and programmable logic control systems (PLC). Topics covered include: Laplace transform, transfer function, time and frequency domain representations; block diagrams and signal flow graphs; state space representations; analysis and design of feedback control systems. Industry accepted software application such as MATLAB is extensively used throughout the course for projects and assignments. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall
Credits: Credits:3 (3,0)

ETM 521 Semiconductor Devices and Integrated Circuits
This course focuses on the fundamental concepts and practical perspectives of the semiconductor devices that comprise modern electronic circuits. It provides students with an in-depth understanding of device operating principles, circuit analysis and design methods, and an overview of processing technology. Topics covered include: semiconductor materials and devices; p-n junctions; bipolar junction transistors and field effect transistors; the MOS capacitor, MOSFET and CMOS; integrated circuits, amplifiers and frequency generators; digital integrated circuits; an overview of processing technology; novel nanoscale electronic and photonic devices. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall
Credits: Credits:3 (3,0)

ETM 530 Residential Development Management
This course covers current homebuilding systems in the United States from design to construction. It includes an overview of the homebuilding industry, housing demand, management of the homebuilding process, the regulatory environment, housing design guidelines, development of contract documents, and the residential construction process. It also covers structural, mechanical, electrical, and plumbing systems. Prerequisite(s): BUS 502 with a grade of C or better and Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 531 Construction Cost Analysis and Advanced Estimating
This course covers the emerging techniques of construction cost analysis and advanced estimating. It includes estimating cycles, data collection and data sources for estimating, cost index, cost capacity factors, parameter cost, trade-off analysis, break-even analysis, depreciation, overhead, time value of money, rate-of-return analysis and forecasting. It also covers bid strategies, life cycle cost analysis, and cost-benefit ratio analysis. Prerequisite(s): BUS 502 with a grade of C or better and Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 533 Heavy Construction Operation and Equipment
This course covers current heavy construction practice in the United States in terms of construction planning and optimum use of heavy equipment. It includes earthwork planning, equipment cost, geotechnical materials, machine specifications, trucks and hauling equipment management, aggregate production including concrete and asphalt, cranes, piles and pile driving equipment, and equipment for pumping water for job sites. The course includes ten laboratory experiments, two on planning earthwork, three on geotechnical materials, compaction, and stabilization, one on compressed air, two on aggregate production, and two on concrete production. Prerequisite(s): BUS 502 with a grade of C or better and Graduate status in ETM and approval of the Graduate Program Coordinator
Corequisite(s): ETM 533L
Course Offered: Fall
Credits: Credits:3 (2,2)

ETM 534 Lean and Sustainable Engineering
This course will consider the use of lean and sustainable practices to improve the efficiency of processes and projects in engineering and construction. Lean principles will include Six Sigma and Total Quality Management. Sustainability will be considered from the standpoint of the LEED (Leadership in Energy and Environmental Design) rating system, as well as other assessment systems. Case studies will be considered, and an application of the principles in a project will be undertaken. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ETM 550 Intelligent Transportation System
This course will cover the fundamentals and applications of Intelligent Transportation Systems (ITS) in regional and international settings. The components of ITS, such as architecture, standards, planning and testing will be examined. ITS user services and applications, along with challenges and opportunities will be studied through in-class examples. The role of ITS in national security will be discussed. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ETM 551 Transportation Planning Principles
This course will cover the principles of transportation planning and scheduling with a focus on travel demand forecasting, regional and long-term transportation planning and, transportation policies. Trip generation and distribution models will be examined and students will gain hands-on planning and scheduling experience in transit design and planning. The importance of zoning systems, and traffic assignment techniques will be studied. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ETM 552 Traffic Flow Theory and Operations
This course is designed to provide students an in-depth overview of the macroscopic, microscopic and picoscopic modeling of the traffic flow. In addition, students will gain experience in traffic sensing technologies and their implementation in traffic operations. In class examples will cover the three-dimensional modeling and representation of traffic flow. Students will develop a semester-long project incorporating the methodologies and principles covered in the course to demonstrate the planning of a longitudinal solution to existing traffic operations challenges. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ETM 555 Transportation and Logistics Management
This course will cover lean principles and their applications to transportation modalities with a focus on strategy development, contract negotiations, process standardization and sustainability, market trends and risk management. The management of transportation logistics will be covered through in-class examples, exercises and discussions. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Credits: Credits:3 (3,0)

ETM 611 Modern Energy Conversion Technologies
This course provides description and analysis of energy conversion technologies with an emphasis on alternative energy sources including solar, wind turbine, and biomass energy systems. Biomass gasification to produce synthesis gas is discussed. Hydrogen cleanup and separation techniques using water gas shift (WGS) and palladium membrane or electrochemical systems (hydrogen pump) are also discussed. Other energy conversion devices are investigated, including thermoelectric and light-emitting diodes, solid-state refrigerators and Peltier, and Seebeck effects. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall
Credits: Credits:3 (3,0)

ETM 612 Robotics, Automation, and Control Systems
This course covers different types of robots and their applications and control systems and provides 3D vector presentation for the kinematics and dynamics of robots. Feedback and fuzzy logic control systems are discussed. The use of robotics simulation software is integral throughout the course, which culminates in a project leading to the design and development of robotics integration systems with their peripherals. Prerequisite(s): ETM 520, Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 623 Optical Communications
This course covers the principles of optical fiber communication systems and optical networks. Topics include optical fibers, propagation characteristics, attenuation and dispersion, optical sources such as light emitting diodes (LEDs) and lasers, passive components, optical receivers, PIN and avalanche photodiodes, optical amplifiers, and optical switches. Optical system design issues are discussed including power budget, bandwidth, Q-factor, and bit error ratio (BER). Wavelength division multiplexing (WDM) systems, nonlinear effects, and modulation techniques are also covered along with optical networks, topologies, and applications. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall
Credits: Credits:3 (3,0)

ETM 624 Fundamentals of Photovoltaics and Photonics
This course focuses on the principles and applications of optical engineering systems as well as photonics and photovoltaics. Concepts in optical engineering and design of optical systems are covered. Topics include optoelectronic devices, photovoltaic solar cells and systems, photonic devices, and an introduction to LASERs. The operating principles of photovoltaic solar cells, including photon absorption, excitons, generation and recombination processes, carrier densities, and charge transport are covered. Emerging technologies involving nanostructures, quantum dots, and heterojunctions are also discussed. Opportunities and challenges facing the industry as devices are scaled at the nanometer range are explored. Examples of optical device design are drawn from areas of current interest such as photovoltaic solar cells, optical sensors, photonic crystals, and nano-photonics. Prerequisite(s): ETM 503 and ETM 520, Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 631 Construction Contracts
This course covers details of construction contracts and related documents, which include contract documents, design phase documents, pre-bid documents, bid submission documents, forms of agreement, and documents supporting the agreement. This course also covers site condition clauses, red flag clauses, insurance contracts, and surety bonds, as well as documentation and record keeping requirements. In addition, labor agreements and joint venture agreements will be discussed. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Spring
Credits: Credits:3 (3,0)

ETM 670 Master's Project
This is a Capstone course for students who do not plan to take the thesis option. The course is designed as an independent study in which the student utilizes their knowledge in the field to evaluate a series of case studies. A complete oral and written presentation is required of each student detailing their work. In each case study the student must clearly demonstrate their ability to understand, analyze and solve technical and/or managerial problems by applying their knowledge gained through their course work. Students completing this course will not receive credit for BUS 670. Prerequisite(s): Completion of twenty-one (21) credits of required Core and Track Specific Courses in the ETM program and permission of graduate coordinator.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

ETM 671 Master's Thesis
This is an independent study performed by the students to utilize their knowledge in engineering technology management. This practice-oriented work contributes to the enhancement of productivity, the improvement of quality, and the achievement of an industry's cost effectiveness. The master's thesis draws on students' individual interests, stimulating their critical thinking, and sharpening their problem-solving abilities. A literature survey, analysis, discussion, and conclusions are documented in the thesis under the direction of a faculty mentor and presented by the student at the completion of the work to demonstrate their professional competency in their field of study. Students completing this course will not receive credit for BUS 671. Prerequisite(s): Completion of twenty-one (21) credits of required Core and Track Specific Courses in the ETM program and permission of graduate coordinator.
Course Offered: Fall, Spring
Credits: Credits:1 to 1 (1 to 1,0)

ETM 680 Special Topics in Technology Management
This special topics course is designed to inspire students to study a specific topic or several related topics that address a special interest in technology management. It will require students to research, investigate, and analyze design, manufacturing, quality, or production issues. The course strategy is established by the instructor and adjusted to respond to students' interest to achieve the class goal of enhancing in-depth understanding of the subject matter. Students taking ETM 680 cannot get credit for BUS 680. Prerequisite(s): Graduate status in ETM and approval of the Graduate Program Coordinator
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

FRENCH (FRE)

FRE 101 French I (Elementary)
A beginning course in French emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

FRE 102 French II (Elementary)
A continuation of French 101 emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. Prerequisite(s): 2 or 3 years of high school French or FRE 101.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

FRE 203 French III (Intermediate)
A continuation of FRE 102 for students who have had 3 or 4 years of high school French. This intermediate course further emphasizes the development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. A literary and cultural reader will be introduced. Prerequisite(s): required or 2 or 3 years of high school French.
Course Offered: Fall
Credits: Credits:3 (3,0)

FRE 204 French IV (Intermediate)
For those students who have taken FRE 203 or four or more years of high school French. This course emphasizes structural review, intensified practice in oral expression with increased emphasis on reading and writing skills. Continued attention will be given to contemporary French culture. Selections from French authors will be read. Prerequisite(s): Approval of this department chair or FRE 203
Credits: Credits:3 (3,0)

FRE 301 French V (Advanced)
An advanced conversation/composition course with intensive practice in oral and written French. Prepared discussions and writing assignments on selected cultural historical and literary topics. Prerequisite(s): Approval of this department chair or FRE 204.
Credits: Credits:3 (3,0)

FRE 302 French VI (Advanced)
A continuation of French V Advanced with intensive practice in oral and written French. Prepared discussions and writing assignments on selected cultural, historical and literary topics. Prerequisite(s): Approval of this department chair or FRE 204.
Credits: Credits:3 (3,0)

FRESHMAN EXPERIENCE (FRX)

FRX 103 Career Planning for Freshmen
This course is designed to assist freshmen that are undecided about choosing a future career or major. The course emphasizes self-assessment, critical thinking, problem solving, decision making, educational and vocational planning, and orientation to college and reality testing. A successful adaptation to college is an overall goal of the course.
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (2,0)

FIRST YEAR EXPERIENCE (FYE)

FYE 101 First Year Experience
This course is designed to assist new students in acclimating, connecting, and adjusting to the college campus and experience. Through presentations, discussions and group work, students will become familiar with college resources and learn strategies for academic success. Students will also be introduced to the values and ethical principles of the College and encouraged to reflect on their role/responsibilities as college students. Topics include time management, study skills, stress management, goal setting, course and career planning, self-assessment and awareness, and the development of wellness strategies. Note: Students completing FYE 101 may not receive credit for FRX101, FYS 101, or RAM 101. Credits 1 (1.0)
Credits: Credits:1 (1,0)

FYE 101E First Year Experience-Enhanced
This course is designed to assist new students in acclimating, connecting, and adjusting to the college campus and experience. Through presentations, discussions and group work, students will become familiar with college resources and learn strategies for academic success. Students will also be introduced to the values and ethical principles of the College and encouraged to reflect on their role/responsibilities as college students. Topics include time management, study skills, stress management, goal setting, course and career planning, self-assessment and awareness, and the development of wellness strategies. Note: Students completing FYE 101E may not receive credit for FYE 101, FRX101, FYS 101, or RAM 101. Credits 1 (1,0)
Credits: Credits:1 (0,0)

FIRST YEAR SEMINAR (FYS)

FYS 101 First Year Seminar
This course will assist new students in transitioning from high school to college. Students will become familiar with college resources and will learn strategies for academic success. Through group work and problem solving, students will learn to turn to each other, faculty members, support staff, and their AAIC Academic Advisor for support. Note: Students completing FYS 101 may not receive credit for FRX 101, FYE 101, or RAM 101.
Course Offered: Fall
Credits: Credits:1 (1,0)

GEOGRAPHY (GEO)

GEO 110 Maps and Map Analysis
This course is an introduction to the study and design of map formats, symbology, coordinate systems, and how maps record the historical patterns of human behavior. The course will also examine maps as a tool to analyze human activity and societal development, and include important aspects of map data collection, processing, the Global Positioning System (GPS), quantitative mapping, and GIS-based mapmaking techniques. Note: Students who take GEO 110 may not receive credit for GIS 101
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

GEO 201 Physical Geography
This course introduces students to the study of the Earth as a system. We will cover the four major subsystems--the atmosphere, the hydrosphere, the lithosphere, and the biosphere--with a focus on the patterns and processes that shape the planet. The goal of the course is to provide students with a clear understanding of the complex and changing processes associated with physical geography, especially those which are important for solving environmental and economic problems associated with air, water, soil, flora, fauna, and other aspects of the natural world.
Prerequisite(s): EGL 101
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

GEO 201L Physical Geography Laboratory
This physical geography laboratory course can be taken as standalone (1) credit physical science lab or as accompaniment to the GEO201 Physical Geography course. This course introduces students to the study of the Earth as a system. This laboratory is designed to give an overview of the development, distribution, and interrelationships of landforms, climates, minerals, soils, and water resources. Prerequisite(s): EGL 101 EGL 101 with a grade of C or better
Course Offered: Fall, Spring, Summer
Credits: Credits:1 (0,3)

GEO 211 The World and Its Peoples
This course is an exploration of the rich diversity of cultures and societies of the contemporary world, as well as an introduction to world geography and how it has shaped major developments in global history. Critical readings of recent ethnography will be used to examine themes such as ethnicity and migration, rural life and traditionalism, and family and kinship. Students will also be familiarized with the growth of cities, demographic changes, the development of a leisure culture, and attitudes towards work as we survey the major world regions (Southern Asia, the Pacific Rim, Sub-Saharan Africa, North Africa and the Middle East, the Americas, Europe, and Oceania). Furthermore, we will examine the interaction between humans and their physical environment, interrogate the role of language on national identity among peoples, and trace the evolution of world religions. NOTE: Students cannot earn credit for GEO 211 and GEO 211*D GEO 211*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

GEO 222 Human Geography
This course provides an introduction to human geography in its multiple forms: social, cultural, environmental, urban, economic, and political. Students will explore human interactions through the lenses of community, culture, and society. While the focus will be on human populations, there will also be discussions of how interaction with nature and the environment shape relationships through an analysis of the human to land interaction. Globalization, cultural diversity, and migration will serve as important themes throughout the course. NOTE: Students cannot earn credit for GEO 222 and GEO 222*D GEO 222*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): Any 100-level HIS or POL course
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GEO 223 Africa and Its People
This course provides a survey of the geography of Africa in its multiple forms: social, cultural, physical, environmental, urban, rural, economic, and political. Students will explore Africa through these multidisciplinary lenses arid discuss the misconceptions that have plagued the continent and its peoples. Globalization, development,. cultural diversity, and migration will serve as important themes throughout the course. Prerequisite(s): Any 100 level Social Science Course (this is a regional geography course, which are multidisciplinary in nature)
Credits: Credits:3 (3,0)

GEO 231 Europe and Its Peoples
This course is an exploration of the rich diversity of cultures and societies of contemporary Europe, as well as an introduction to the continent's geography and how its unique physical attributes shaped world history. Critical readings of recent ethnography will be used to examine themes such as ethnicity and migration, rural life and traditionalism, and family and kinship. Students will also be familiarized with the growth of cities, demographic changes, the development of a leisure culture, and attitudes towards work in Europe. Furthermore, we will examine the interaction between Europeans and their physical environment, interrogate the role of language on national identity among European peoples, and trace the evolution of religion from paganism to "Post-Christianity." We will also study the development of political culture on the continent and historical and contemporary projects to create a united Europe from the Pax Romana to the European Union. NOTE: Students cannot earn credit for GEO 231 and GEO 231*D GEO 231*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GEO 232 North America and Its Peoples
This course is an exploration of the rich diversity of cultures and societies that make up North America (i.e., United States, Canada and Mexico), as well as an introduction to the region's geography and how its unique physical attributes have shaped world history. Readings in spatially-inflected ethnography will be used to examine themes such as indigenous identity and rights, ethnicity and migration, religious practice, rural life, and cultural change. Students will also become familiar with demographic changes, industrialization, urbanization, land use, and the relationship between work and leisure in the region. Furthermore, students will study the development of political culture in the U.S., Canada, and Mexico, and contemporary

efforts to bind the three countries through trade and regional cooperation.
Prerequisite(s): Any 100-level or higher HIS, POL, GEO or GIS course.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GEO 290 Topics in Geography
This course offers instruction in special content areas in the field of geography. Students will explore the linkages between physical and human geography, focusing on a particular topic, e.g., globalization, technology, youth, cities, trade and economic development, etc. Students should consult the department before registering for any Special Topics course.
Prerequisite(s): Any 100-level or higher HIS, POL, or GEO course
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GEO 311 Geography of Long Island
In this course students will examine the physical, cultural, social, economic, political, and environmental geography of Long Island. This geography course will support career paths for those interested in Long Island's tourism industry, economic development, local government, public policy, and ecology. While the primary focus of the course is on Nassau and Suffolk Counties, Brooklyn and Queens are also considered, as is Long Island's relationship within the larger region, including Manhattan, Connecticut, and the mainland of New York State. Prerequisite(s): Any HIS, POL, GEO or GIS course at the 200-level or higher
Credits: Credits:3 (3,0)

GEO 322 Cultural Geography
This course takes a critical approach to the study of human-environment interactions, focusing on how various cultural products and norms (as well as differences across cultures) shape our views about each other and the world around us. Students will be introduced to the comparatively new sub-discipline of cultural geography and interrogate the “cultural turn” in the field of geography. Students will engage the complex relationship between the “self” and the “other,” addressing the topics of power, economy, race, religion, sexuality, ethnicity, gender, and nationalism. NOTE: Students cannot earn credit for GEO 322 and GEO 322*D GEO 322*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Prerequisite(s): Any 100-level or higher HIS, POL or GEO course
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GEO 323 Urban Geography
This course will trace the historical development of the city from its humble beginnings to its current form and beyond. We will explore the impact of environmental, economic, demographic, sociological, cultural, technological and political forces on the development of the world’s urban centers. This course will also explore the effects that urbanization and urbanism has on the lives of the world’s citizens and how cities are shaping the future of mankind. In addition to a theoretical treatment of the city, we will also take an in-depth look at the world’s great metropolises. By focusing on representative urban centers in different world regions, students will gain insight into the commonalities and differences of cities around the globe. Class discussions will be supported by lectures on the development of urban centers in the United States. Prerequisite(s): Any 100-level or higher HIS, POL, or GEO course
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

GEO 325 Globalization & Sustainability
This course examines spaces and places of globalization and sustainability, focusing on patterns of production, consumption, urbanization, and land use. Concentrating on the period since 1979, the content will address economic, social, cultural, and political change on a global scale. In addition this course will cover questions of environmental degradation, climate change, mass extinctions and other impacts of the Anthropocene era and how these effects can be mitigated through sustainable practices.
Prerequisite(s): Any 200-level or higher HIS, POL, or GEO course
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

GEO 330 Environmental Interactions
This course explores important environmental issues in sustainability facing society today. Topics to focus around understanding the changing spatial relationships between people and their environments, the causes and consequences of environmental degradation, strategies for building a more sustainable world, and the methods and approaches that scholars have used to understand human-environment interactions. Prerequisite(s): Any 200-Level Social Science Course
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

GEO 335 Food Geographies
Food is materially, economically, culturally, socially, and politically linked to its geography. This course examines food from a spatial perspective, taking a farm-to-table approach that highlights the role of governments and corporations - as well as harvesters, growers, and consumers of foodstuffs - in shaping what, how, and when we eat. Geographies of animal husbandry, commercial fishing, cereals, fruits/vegetables, alcohol, coffee, sugar, and exotic fare will all be explored, while also looking at bodies and eating spaces (home, restaurants, on-the-move). The geopolitical and ecological impact of the food system will also feature prominently, with discussions of human health, culinary nationalism, food insecurity, sustainability, environmental degradation, climate change, labor exploitation, and social inequality. Prerequisite(s): Any 200-level or higher HIS/POL/GEO course.
Credits: Credits:3 (3,0)

GEO 340 Geography and Imagination
The course examines the role of imagination in the field of geography. We will investigate how humans envision, experience, and shape the world through discourse, representation, and various ways of seeing and knowing. Key concepts to be explored will include the "art" of-geography and the production of space and "nature," cartography as a mechanism of power and maps as tools to think with, and the role of culture in spatial understanding. We will ·also examine the relationship between physical, represented, and imagined places, especially through non-cartographic technologies of geographical imagination (e.g., travel literature, landscape painting, photography, museum installations, film/TV, videogames, etc.).
Prerequisite(s): Any 200-level or higher ANT, ECO, GIS, GEO, HIS, POL, PSY, SOC or STS course.
Credits: Credits:3 (3,0)

GEO 350 Place Branding
Recognizing that any place has an identity that is defined by its physical setting, built environment, economy, history, and the culture of its people, this course examines the ways in which places - e.g., cities, regions, and countries - are marketed and promoted in a post-industrial world. Following a conceptual exploration of the idea of place and an overview of how cities and countries have defined themselves (such as the famous "I Love NY" brand campaign), the content will focus on the ways in which spatial identity is communicated, consumed, and critiqued. Students will engage with literature and assess case studies drawn from a number of disciplines, including social/cultural geography, tourism studies, geopolitics, brand management, political economy, and strategic communication.
Prerequisite(s): Any 200-level or higher GEO/POL/HIS course
Credits: Credits:3 (3,0)

GEO 355 Geography of Tourism
Approaching leisure travel from a spatial perspective, this course examines the complex interplay between geography and tourism in a global world. Beginning with the history of tourism, the content critically assesses the power structures of holidaymaking, the effects of the tourism encounter, and how the travel-based experiences shape our individual and collective perceptions of the world around us. The impact of tourism on economics, society, culture, and politics will be explored alongside its effects on the environment at the local, national, and planetary scales. Prerequisite(s): Any 200-level or higher History, Politics or Geography course
Credits: Credits:3 (3,0)

GEO 370 The Anthropocene: A Planet in Crisis
Assuming a holistic approach to the impact of humans on the planet, or what scientists and scholars have called the Anthropocene or the Human Epoch, the course explores geographical concepts associated with Homo sapiens' ecological footprint. Content will focus on dating, defining, and critiquing the Anthropocene, examining the geophysical repercussions of "terraforming" the planet, mapping the effects of global climate change, and assessing the impact of the Anthropocene on human-animal-plant interactions, technology, culture, politics, economics, and society-at-large.
Prerequisite(s): Any 200-level or higher HIS, POL, GEO course.
Credits: Credits:3 (3,0)

GEO 390 Special Topics in Geography
This upper-level course offers advanced instruction in special content areas in the field of geography. Students will explore a particular topic, theme,

or sub-discipline, e.g., quantitative methods, climate change, race and ethnicity, etc. Students should consult the department before registering for any Special Topics course. Prerequisite(s): Any 200-level or higher HIS, POL or GEO course.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GERMAN (GER)

GER 111 German I (Elementary)
A beginning course in German emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

GER 112 German II (Elementary)
A continuation of German 111 emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. Prerequisite(s): 2 or 3 years of high school German or GER 111.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

GER 213 German III (Intermediate)
A continuation of GER 112 for students who have had 3 or 4 years of high school German. This course emphasizes the development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. A literary and cultural reader will be introduced. Prerequisite(s): GER 112
Course Offered: Spring
Credits: Credits:3 (3,0)

GER 214 German IV (Intermediate)
For those students who have taken GER 213 or four or more years of high school German. This course emphasizes structural review, intensified practice in oral expression with increased emphasis on reading and writing skills. Continued attention will be given to contemporary German culture. Selections from German authors will be read. Prerequisite(s): GER 213
Credits: Credits:3 (3,0)

GER 301 German V (Advanced)
A course in German which introduces the student who has completed the four basic skills (speaking, listening, reading and writing) to the German language of everyday business. The course gives an insight into united Germany's place in the world market. The topics are general enough to be of interest to most intermediate and advanced students, but at the same time offer preparation for the business minded student. Prerequisite(s): GER 214
Credits: Credits:3 (3,0)

GER 302 German VI (Advanced)
A continuation of German V Advanced. Prerequisite(s): GER 301
Credits: Credits:3 (3,0)

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

GIS 101 The Digital Earth
This class is an introduction to the fundamentals of geospatial technology, the ways in which that technology can be used to understand human and biophysical phenomena, and the ways that technology affects contemporary life. This class will introduce geographic information systems (GIS), the Global Positioning System (GPS), remote sensing, and spatial analysis. This class will also address social and ethical issues raised by the use of those technologies. Hands-on exercises will be incorporated to give students a deeper understanding of geospatial technology and how it can be used to answer meaningful questions. Note: Students who take GIS 101 may not receive credit for GEO 110
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

GIS 105 The Art of Maps
This course seeks to improve students' understanding of, and appreciation for, maps as both a visual medium for communicating data and a form of artistic expression. Through readings and selected map examples, students will gain a deeper understanding of the history of Cartography and decisions that go into map design. Students will internalize fundamental Cartographic concepts including: scale, composition, visual hierarchy, rudimentary color theory, typography, and the appropriate use of visual variables. While not the focus, students will also be introduced to basic data types and data classification as it pertains to Cartography. Students will demonstrate and apply these concepts through critiques of selected map examples and the creation of physical and digital maps throughout the course. Prerequisite: MP2
Credits: Credits:3 (3,0)

GIS 201 Discovering Math Through Geography
This course demystifies the mathematics used in manipulating spatially related data as well as explores the connections between math and geography and its applications in fields like environmental science, urban planning, engineering, business, and the liberal arts. Students will learn essential skills in arithmetic, algebra, geometry, trigonometry, and matrices, which are critical for analyzing spatial data. This course focuses on an introduction to common mathematical symbols and operations for those with little or no math background, and foundational concepts needed to excel in various disciplines that require spatial thinking and data analysis. For a description of MP2 placement level please see the current College Catalog. Prerequisite(s): MP2 or MTH 015
Credits: Credits:3 (3,0)

GIS 222 Geovisualization I
Geographic information systems (GIS) are computer systems designed for the creation, storage, retrieval, analysis, and visualization of spatial data. GIS is applied across fields as diverse as urban planning, environmental management, law enforcement, industrial location, and marketing, and for scientific research in many disciplines. This course is a hands-on course with a required lab period which will introduce students to foundational concepts and skills in working with spatial data, including finding and creating data, spatial analysis, and GIS-based map production. This course is a prerequisite for several upper-level GEO courses. Prerequisite(s): MTH 110 and EGL 101 both with a grade of C or higher Corequisite(s): GIS 221L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (3,3)

GIS 231 Geospatial Research Methods
This course exposes students to the process of doing geographic research. Basic epistemological and ontological approaches will be reviewed through the use of readings on research methodologies and selected readings from the geography literature. Class discussion will focus on the identification of research problems, construction of hypotheses, and development of research design. The course will cover a variety of important contemporary geographic theories and will complete exercises to give students hands-on experience in completing qualitative and quantitative geographic research. Note: Students cannot get credit for GIS 231 and 231W; GIS 231W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 101, MTH 110 and Any 200-Level or Higher GEO course.
Course Offered: Spring
Credits: Credits:3 (3,0)

GIS 301 cience
This course will cover fundamentals of geographic information science (GIScience), the application of geographic information systems (GIS) technology to scientific inquiry involving geospatial data. GIScience intersects with fields as diverse as epidemiology, urban studies, environmental science, criminal justice, public policy, business management, marketing, data science, etc. This course offers hands-on application of techniques for the capture, storage, processing, analysis, and communication of geospatial data Prerequisite(s): EGL 101 with a grade of C or higher and (any 200 level or higher GEO course, or MTH 110) all with a grade of C or higher and Junior Level Status.
Credits: Credits:3 (3,0)

GIS 302 Remote Sensing
This course, including its required lab component, will explore some of the ways in which remote sensing systems provide geospatial information that is relevant, accurate, timely, accessible, available in an appropriate format, and cost-effective. Recent developments in Earth observation such as imaging radar, LiDAR and hyperspectral sensors are increasing the wealth of information that can be generated from remotely sensed data sources. As a consequence numerous new GIS applications that rely on advanced remotely sensed data sources have emerged at local, regional and global scales. Course will cover topics including; remote sensing principles, image acquisition, image analysis and GIS/Remote Sensing Applications.

Prerequisite(s): (MTH 110 or MTH 116 or MTH 117 or MTH129) and (Junior-Level status or permission of the department chair) Corequisite(s): GIS 302L
Course Offered: Fall, Spring
Credits: Credits:4 (3,3)

GIS 303L Science Lab
This course is a stand-alone lab that covers fundamental techniques used in GIScience, the application of geographic information systems (GIS) in scientific inquiry using geospatial data. This course will focus on GIScience for the analysis of data on natural phenomena, and the synthesis of environmental and social data to assess hazard, risk, and vulnerability. Prerequisite(s): MTH 110 with a grade of C or higher and Junior-Level standing
Credits: Credits:1 (0,3)

GIS 321 Geovisualization II
Maps can be powerful devices for communication, but also tools for exploration of relationships among social and physical processes manifesting in space. This course explores the history, science, and art of cartography. Students will use geographic information systems software to make reference and thematic maps. Students will apply principles of cartography, including the use of color, typography, and visual balance, to create maps which are informative, aesthetically pleasing, and ultimately convincing. Prerequisite(s): GIS 222
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

GIS 322 Geovisualization III
This course explores selected techniques for deploying interactive, internet-based geovisualizations using both proprietary and open-source platforms. The focus of this course is client-side technologies that integrate a variety of geospatial data services using standard protocols and APIs. This is a hands-on course where students apply both standard and emerging practices for effective and attractive communication of geospatial information to a variety of audiences. Prerequisite(s): GIS 222 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

GIS 331 Spatial Analysis I
This course will cover statistical techniques for the analysis of spatial data, including spatial cluster detection, factor analysis, ANOVA, and multivariate regression. Special attention will be paid to spatial sampling and spatial autocorrelation. Students will complete computer exercises using statistical software. In addition to standard data visualization techniques (boxplots, histograms, scatterplots), students will learn how to create basic statistical maps for geovisualization. Prerequisite(s): MTH 110
Course Offered: Fall
Credits: Credits:3 (3,0)

GIS 332 Spatial Analysis II
This upper-level course integrates geographic information systems (GIS) and spatial data analysis, with a focus on quantitative and qualitative methods, procedures for research design, and interpretation of findings. Topics include identification of spatial patterns, hypothesis testing, effective use of statistics, and data correlation. Prerequisite(s): MTH 110, GEO 221 or GIS 222 or permission of department chair.
Course Offered: Spring
Credits: Credits:3 (3,0)

GIS 341 Geoprocessing I
This course introduces conceptual and practical aspects of programming for geographic applications. The main focus of this course is on developing a solid understanding of basic geoprocessing techniques including variables, looping, conditional statements, nesting, math, strings, and other concepts. Students in this course will develop a proficiency in applying these basic geoprocessing principles to manipulating spatial data sources within the Geographic Information Systems (GIS) environment. NOTE: This course are not substitutes for programming courses by the Computer Systems Department. Prerequisite(s): GIS 222 with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

GIS 342 Geodatabase Management
GIS database management systems play an important role in domains that involve large and complex data with spatial references. This course is designed to give students an overview of GIS applications, an understanding of spatial and relational database concepts, and the practical experience of using GIS to solve real world problems. NOTE: This courses are not substitutes for programming courses by the Computer Systems Department. Prerequisite(s): GIS 222 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

GIS 351 and Public Health
This course covers the uses of geographic information systems (GIS) in public health. Possible topics include access to health services, the spatial clustering of health events, analysis of environmental hazards, the effective visualization and communication of information derived from geospatial data, and the evidence-based formulation of public policy based on the analysis of geospatial data. Skills developed in this class can enhance existing professional capabilities, and provide a stronger foundation for research performed during graduate study. Prerequisite(s): MTH 110 with a grade of C or higher and Junior-Level status
Credits: Credits:3 (3,0)

GIS 352 and Municipal Government
This course covers the uses of geographic information systems (GIS) in municipal government. Topics covered include the acquisition of municipal geospatial data from diverse sources, the processing of structured and unstructured data into usable GIS formats, basic analysis of geospatial data to answer frequently-asked questions, and the publication of effective visualizations of geospatial data. Students will develop fundamental skills used by GIS technicians working for municipal government, and those skills can be used to enhance existing professional capabilities, or provide a foundation for deeper study of GIS technology. Prerequisite(s): MTH 110 with a grade of C or higher and Junior-Level status
Credits: Credits:3 (3,0)

GIS 353 and Public Education
This course covers the uses of geographical information systems (GIS) as a pedagogical tool in primary and secondary education. Topics covered include characteristics of geospatial data, sources for public data, GIS apps and tools suitable for use with primary and secondary education students, and development of instructional units in a variety of subject areas using GIS as an active learning tool. Prerequisite(s): MTH 110 with a grade of C or higher and Junior level status Credit(s): 3
Credits: Credits:3 (3,0)

GIS 355 For Ecology
This course examines GIS and spatial reasoning as it applies to the study of ecological phenomena. Students will learn fundamental GIS concepts including spatial reasoning, data structures, coordinate systems/projections, and how to generate and acquire spatial data. Students will then apply those concepts in a variety of hands-on, project-based, analysis techniques that demonstrate how spatial data can be used to address ecological issues. Techniques covered can include but are not limited to: image classification, regression, time series data, species distribution modeling, and location modeling/movement analysis. This course will utilize the R programming language for most analyses. Prerequisite(s): MTH 110 or MTH 116 and EGL 101
Credits: Credits:3 (3,0)

GIS 391 Practicum
This is an applied learning course where students will learn GIS skills and perform GIS tasks in coordination with one or more community partners. Under the direct guidance of a faculty member, students will work together to complete defined project based assignments. Students will gain entry-level GIS experience, develop soft skills useful in all lines of work, and build professional relationships. Prerequisite(s): GIS 222 with a grade of C or higher and instructor approval
Credits: Credits:3 (0,0,6)

GIS 431 Spatial Analysis III
The course will tackle the problem of analyzing spatial data with the R programming language. Different types of spatial data will be covered, such as point patterns, lattice data and data coming from irregular measurements of continuous processes (geostatistics). In addition, different worked examples will be presented showing how to proceed with the analysis of a wide range of spatial data sets. The topics of the course will contain an introduction to various R packages for the analysis of spatial data. This includes data import/export, data management and visualization, and how to fit a broad range of models for spatial data. The worked examples will focus on particular real data sets from Epidemiology,

Environmental Sciences, Ecology, Economics and others. Prerequisite(s): GIS 331 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GIS 432 Location Modeling and Analysis
This course covers issues and approaches in location analysis. Topics include location theory and models; representation issues; use of geographic information systems (GIS) for data preparation, analysis and display; evaluation of service areas; land use allocation; accessibility and location conflict; and implications for planning and public policy. Prerequisite(s): (GIS 301 or GIS 222) and GIS 331 all with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

GIS 433 Mapping Applications of Drones
This course will serve as a catalyst for students to gain both a theoretical and practical understanding of the diverse applications of unmanned aerial systems (i.e. drones) within the broader framework of geospatial technology. This course will cover a wide variety of spatial data types that can be collected or derived using a drone with particular focus on data collection procedures, data processing, and analysis best practices. Key concepts covered include: mission planning and autonomous flight procedures, remotely sensed imagery acquisition and processing, structure from motion and principles of photogrammetry, point cloud data processing, elevation data and 30 model generation, and data quality considerations. Prerequisite(s): GIS 222 or GIS 302 with a grad of C or higher or permission of History, Politics and Geography Chair
Credits: Credits:3 (3,0)

GIS 441 Geoprocessing II
This course is intended to facilitate the student's aptitude in utilizing geographic data, geoprocessing and modeling, as well as increase student's understanding of conceptual issues related to geospatial research and analysis. The topics covered in this course are geospatial automation, creation of raster and vector data; geospatial analytic models, and spatial statistics. This course also covers Python scripting for geoprocessing as flexible approach for the development of spatial models. Course materials will be presented through lectures, discussions of readings, and demonstrations. NOTE: This course is not a substitute for programming courses by the Computer Systems Department. Prerequisite(s): GIS 341 with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

GIS 491 Senior Seminar in
Students integrate their knowledge of human and physical geography, as well as geographic techniques, to propose solutions to real-world problems. Students gain experience in working in small groups and in written and oral presentation of project results, and will be evaluated with respect to the skills acquired in their degree program. Topics may include, but are not limited to, issues such as sustainable development in rural communities, global and regional food and energy distribution, quantifying and analyzing global or regional indicators of environmental and/or societal trends. Note: Students cannot get credit for GIS 491 and GIS 491W; GIS 491W can be used to fulfill the writing intensive requirement. Prerequisite(s): Senior status and any 300 level GEO course.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

GIS 492 Internship in
This internship course will provide students the opportunity to gain hands on experience and knowledge with using geospatial technologies. This internship consists of a structured on and/or off-campus experience in a supervised setting that is related to the student's major and career interests. Practical experience is combined with scholarly research under the guidance of geography faculty and the entity providing the internship opportunity. At the end of the internship the student should have more of the necessary skills to help translate their chosen degree into a job, as well as a better understanding of how this degree relates to society. Note: Students cannot get credit for GIS 492 and GIS 492W; GIS 492W can be used to fulfill the writing intensive requirement. Prerequisite(s): Approval by Program Director or Student's Dept. Chair
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

COMPUTING GRAPHICS (GPH)

GPH 103 Technical Drafting
This is a traditional manual drafting course including orthographic projection, dimensioning, auxiliary projection and pictorial representation. Emphasis will be placed on drafting techniques including lettering, line quality, accuracy and appearance.
Credits: Credits:1 (0,3)

GPH 104 Introduction to Computer Graphics
This is a laboratory course to provide basic understanding and skills in the College's computer graphics CAD software. Students will learn how to run Computer Aided Drafting (CAD) software on PC's to produce mechanical drawings. They will be taught commands and concepts, and develop the skills required. Some of the topics covered include: setup, drawing, erasing, saving, printing, lines, geometric construction, object snap, text, editing and basic dimensioning.
Credits: Credits:1 (0,2)

GERONTOLOGY (GRO)

GRO 100 Introduction to Gerontology
This course provides introductory topics in gerontology, including physical, mental, and social aspects associated with aging. It shows the interactions of various types of aging and describes the pathological developments that affect many older people. The course focuses on diversity in the older population. Topics include differing behaviors, traditions, and attitudes among aging. There will be an emphasis on how society is changed when the aging portion of the population increases rapidly.
Credits: Credits:3 (3,0)

GRO 300 Biology of Aging
This course involves an examination of the physical changes associated with the aging process and aging body. Knowledge and understanding of these processes are important because these physical changes also affect social, psychological, economic, and other aspects of the aging process. The importance of the topic is based on the growing number of older adults in our communities as well as our increased longevity. Each organ system will be discussed with a focus on age related diseases, conditions, and dysfunction. Prerequisites: BIO 123 Human Body and Health
Credits: Credits:3 (3,0)

GRO 310 Nutrition of Aging
This course covers concepts of nutrition directed towards improving nutritional status and health among older adults. Course material addresses key issues facing the field of geriatric nutrition, among a variety of contexts, with an eye to recommendations on improving nutrition programs and status among older adults. Federal, state, and community programs involving nutrition among older adults are reviewed and analyzed. This course is designed to provide entry level nutrition training for professionals to assist the growing aging population in maintaining a healthy quality of life. Prerequisite(s): NTR 110
Credits: Credits:3 (3,0)

GRO 320 Caregiving
This course takes a comprehensive look at what is known about problems and issues caregivers face, caregiving tasks, caregiver appraisals of the situation, caregiver burden, and the psychosocial, health, social, and work consequences of caregiving. Of particular importance are the cultural, familial, and societal implications of caregiving for older adults. The course also will explore long-term care facilities, including nursing homes and assistant-living facilities. Prerequisites: Junior Status
Credits: Credits:3 (3,0)

GRO 330 Public Policy and Aging
This course addresses the impacts of national age-based and age-related policy and programs such as Social Security, Medicare, Medicaid, American with Disabilities Act, the Older Americans Act, and the Affordable Care Act. In addition, it examines the implementation of these programs in state and local settings, where implications are tangible for vulnerable groups such as low-income and frail older people and their families. Policy challenges of issues such as Alzheimer's, long-term care, housing, caregiving, transportation, nutrition, research funding, and disease prevention are discussed. Although the focus is on the United States, there will be opportunities for students to explore aging policies in international settings. Prerequisites: Junior Status

Credits: Credits:3 (3,3)

GRO 340 Gender and Aging
The course will focus on dominant gender paradigms and ways in which gender contributes to the differential structuring of health experiences for women, men and gender minorities. The course will incorporate historical, theoretical and empirical perspectives to explore the relationship between gender, aging, and health in America and other countries. It also explores the relationship at the intersection of class, ethnicity and sexuality, and throughout the course of life. Prerequisites: Junior Status
Credits: Credits:3 (3,0)

GRO 350 Health Care Financial Management
This course will introduce students to the key health care accounting, costing, budgeting, and reimbursement methodologies necessary for the effective management of the finances of a health care facility. Emphasis will be placed on those concepts required for the fiduciary oversight of long-term care and other health care organizations. The essential analytical tools, techniques, and data necessary to ensure sound fiscal operation of health care organizations will be discussed. A combination of accounting and finance concepts will be utilized to enhance the student's decision-making skills. Prerequisite(s): Junior level status
Credits: Credits:3 (3,0)

GRO 410 Health Care Insurance
This course explores the history, structure and likely future trends of health insurance in the U.S. The course includes policy analyses, availability, costs, and limitations in regard to the health insurance needs of the elderly. It provides an in-depth overview of the basic features of private health insurance: including operational challenges and requirements, to cost and quality controls. In addition, the course discusses financial and political challenges to continued viability of Medicare and Medicaid. Several comparisons are provided to international systems as a means for better understanding the unique aspects of the American system. Note: Students who take GRO 410W cannot receive credit for GRO 410; GRO 410W can be used to fulfill the writing intensive requirement. Prerequisite(s): Junior status and GRO100 Introduction to Gerontology
Credits: Credits:3 (3,0)

GRO 420 Long-Term Care Administration
This course presents principles of nursing home management and assisted living services which examines administrative and staffing functions relating to clients, community, public policy, programming and financing. It provides a solid foundation in the operational functioning of long-term care facilities in the United States. The health care environment and the health care system are examined to determine how they impact long-term care administration. Both the long-term private and public sectors of health care organization are overviewed. Multiple long-term health care delivery systems are explored as to what they can offer the elderly and special needs populations. Prerequisite(s): Junior Level Status
Credits: Credits:3 (3,0)

GRO 430 Communication and Aging
This course approaches gerontology from a communication perspective. Attention is devoted to the ways in which communication sustains and deteriorates group collaboration among local, national, and global communities. Through central theories of communication there is recognition that aging is not just an individual process, but also an interactive and intergenerational process. Gerontology 430 shows that communication processes define, form, maintain, and dissolve all social relationships for all age groups. Further, this course gives insight into advertising/marketing communications geared toward the increasing senior population in the United States. Prerequisite(s): EGL 101
Credits: Credits:3 (3,0)

GRO 440 Cultural Diversity and Aging
This course provides an overview of diversity in aging through a multidisciplinary approach. Cultural Diversity & Aging explores key gerontological concepts, examines current applicable research, and summarizes important policies concerning the senior population. Within historical context this course separates gerontologic contributions from several disciplines (sociology, psychology, demography, and public policy). Cultural Diversity & Aging challenges students to consider complex issues of aging and their unique impact on diverse aged populations. Additionally, it examines the diversity among seniors in such complex areas as; ethnic origin, education, income, health status, health beliefs and their individual relation to the health care industry. Prerequisites: GRO 300 with a grade of C- or higher
Credits: Credits:3 (3,0)

GRO 450 Health Care Law
Health care is one of the most regulated sectors of our economy. This course examines the overlapping layers of federal, state and local jurisdiction to better understand health care law. It specifies the law as it relates to health administration and long-term care management. The course critically examines ethical dilemmas and the law associated with elder rights and long-term care facilities from multiple points of view. With the increasing intersection between health care delivery and the law, health care managers encounter a wide range of legal and regulatory issues, including patients' rights, institutional liability, and employee relations. Prerequisite(s): Senior Status
Credits: Credits:3 (3,0)

GRO 460 Internship in Gerontology
In this course students have the opportunity to gain hands on experience in a professional setting. It is oriented towards professional development that builds skills and abilities related to job-seeking, and career. The focus is on development of professional tools including portfolios, resumes, interviewing skills, and relevant certifications. The field experience is individualized based on the career interests of the student and the specific needs of the organization. Field experience proposals must be presented and approved prior to registration for the course. Prerequisite(s): Program GPA 2.75 minimum, GRO 420, and Junior Level Status
Credits: Credits:3 (1,0,6)

HISTORY (HIS)

HIS 101 Themes in World History
This course offers a comprehensive exploration of global history through an examination of particular theme. It stresses regional and global interconnectedness, cross-cultural interactions, and comparative analyses. Additionally, the course will emphasize the modern legacy of historical change and global awareness. Through a thematic focus on one of the following themes: power, religion, gender, or class, students will gain insights into the broader narrative of world history, and understand how that theme illuminates lived experiences while also analyzing the understanding of the structures, systems and interrelationships among civilizations along with the impact on wellbeing and sustainability. Through analysis of primary sources, the course fosters critical thinking and information literacy skills.
Credits: Credits:3 (3,0)

HIS 103 American Revolutions
This course explores pivotal moments that shaped US history through a sustained examination of one of four dynamic lenses: civil rights movements, technological breakthroughs, environmental transformations, or cultural revolutions. This class moves beyond traditional narratives to analyze how diverse individuals and communities have shaped our nation's growth. Students will investigate historical evidence, assess the impact of civic participation, and draw connections between past transformations and contemporary US society.
Credits: Credits:3 (3,0)

HIS 109 Comparative Religions and Cultures
Religion is the foundational element of human culture. In this course, we explore spiritual practices across time and space, from Indigenous and place-based beliefs like Òrì#à, Daoism, and Shinto, to the Dharmic faiths of Hinduism, Buddhism, and Sikhism, to the Abrahamic religions of Judaism, Christianity, and Islam. Other systems of belief, including New Religious Movements (e.g., Bahá'í, Scientology, and Wicca), as well as syncretic traditions like Voudoun, are also explored alongside key cultural practices that influence and reinforce understandings of law, ethics, morality, and what lies beyond the material world. Credit(s): 3
Credits: Credits:3 (3,0)

HIS 114 Western Civilization I
A brief survey from ancient Greece and Rome up to 1789, followed by extensive treatment of the ascendancy of early modern Western civilization, together with its social, economic, and political revolutions, from 1500 through the Napoleonic era. NOTE: Students completing HIS 114 and HIS 115 or HIS 115D may not receive credit for HIS 126.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HIS 115 Western Civilization II
Traces the spread of Western civilization and the development of the modern world by examining the impact of the forces of romanticism, nationalism, industrialism, and intellectual creativity. Note: Students completing HIS 114 and HIS 115 may not receive credit for HIS 126. NOTE: Students cannot earn credit for HIS 115 and HIS 115*D HIS 115*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HIS 117 World Civilization I
A survey of major non-Western civilizations and their interaction with one another, as well as with the European West from antiquity through the Early Modern Period. The course will explore ancient polytheistic traditions, the foundations of major world religions (Hinduism, Buddhism, Islam), and the rise of Christianity as a global faith. It will also address non-Western social, political, and economic systems in East Asia, South Asia, the Muslim World, Sub-Saharan Africa, and pre-Columbian America. Note: Students completing HIS 117 and HIS 118 may not receive credit for HIS 126. NOTE: Students cannot earn credit for HIS 117 and HIS 117*D HIS 117*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

HIS 118 World Civilization II
A survey of the developing world and its interaction with the West since 1700, the course will explore the chaotic effects of the non-Western world's interaction with European imperial powers, the United States, and Soviet Union, focusing on social, economic, cultural, and political change in East Asia, South Asia, the Middle East, Sub-Saharan Africa, and Latin America. The major themes of the course will center on imperialism, nationalism, modernization, the World Wars, and the Cold War. Note: Students completing HIS 117 and HIS 118 may not receive credit for HIS 126.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HIS 121 U.S. History to Reconstruction
A discussion of the development of the United States from its English origins through Reconstruction, this course shows how a new civilization arose out of revolution, independence, new governmental institutions, and equalitarianism, and illustrating the results of the westward movement, and the causes and consequences of the Civil War. Note: Students completing this course may not receive credit for HIS 125.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HIS 122 U.S. History Since Reconstruction
A historical evaluation of American society, assessing Reconstruction, immigration, the nature of imperialism, progressivism, World War I and II, the Cold War, and contemporary American life. Note: Students completing this course may not receive credit for HIS 125. NOTE: Students cannot earn credit for HIS 122 and HIS 122*D HIS 122*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HIS 127 Sports in American History
This course examines the rise and evolution of sports through an analysis of the narrative of American history from its origins to the present. It provides an exploration of sports history through the historical periodization of American history surveys—from the indigenous Native American tribes of colonial America, to the formation of the Revolutionary and early National eras, to industrialization and reform of the late 19th century, to the emergence of modern and postmodern America, and to the globalizing 21st century. This course gives students a broad understanding of the interplay of race, class, gender, ethnicity and religion in the American experience and of American sports through the use of secondary and primary sources, both written and visual, including documentary and fictive representational texts. NOTE: Students cannot earn credit for HIS 127 and HIS 127*D HIS 127*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

HIS 130 African American to 1865
This course examines the history of African Americans in the United States from their African origins to the Civil War and emancipation through primary and secondary readings and visual and aural texts. It focuses on the ways that African Americans established their own cultures and worlds as they resisted and opposed various forms of oppression, including slavery, segregation, dispossession and disfranchisement. It provides students with an understanding of their key struggles for freedom, equality, community, power, and identity, including those related to gender and class, and of their integrative and alternative political, economic and social visions and institutions. NOTE: Students cannot earn credit for HIS 130 and HIS 130*D HIS 130*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Credits: Credits:3 (3,0)

HIS 131 African American History Since 1865
This course explores African American history from the end of the Civil War to the present by engaging wide-ranging issues, debates and topics that have shaped African American experiences since emancipation. Students will examine the struggles by African Americans to exert power over their own images and identities within a white power structure, to establish and define national leadership and institutions, to develop and implement protest strategies, to achieve their social, economic and political objectives, to redress economic inequality, and to express black cultural styles. In the process, the course will concentrate on African American agency, including the nature of both their resistance and oppression, and centrality of African Americans to shaping American history. NOTE: Students cannot earn credit for HIS 131 and HIS 131*D HIS 131*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Credits: Credits:3 (3,0)

HIS 132 The Myth of the Great American Melting Pot
1920-1945 saw an exponential and unexpected change in American history and helped to redefine the American government and its policies. Within these 25 years, America experienced a paradox of the great wealth and prosperity, and prohibition of the roaring 20s to the stock market crash and the Great Depression of the 1930s, to the recovery of the New Deaf programs and redefining governmental oversight by creating the new welfare state to the onset of the Greatest Generation stemming from World War II, rebounding to great prosperity. This course will also focus on minorities, the KKK, closing the doors to immigration, and the effect of the time period on women and African Americans in particular. This course looks at the causes, effects, policies, and intended and unintended consequences of this 25-year time period, how it affected both the American people as a whole and the American government, how it affected American culture, and how it redefined the American Dream. NOTE: Students cannot earn credit for HIS 132 and HIS 132*D HIS 132*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Credits: Credits:3 (3,0)

HIS 160 Exploitation and Sexploitation in World History
This class examines the historical connections between economic, political and socially marginalized groups and the sexual exploitation that these groups encountered within the wider framework of modern world history. Specifically, it will examine, connect and compare the slave trade, colonialism and the Holocaust and work to highlight the agency of peoples to contest their oppression. It also will investigate how women were sexually abused, raped or otherwise targeted and the significance of interracial intimate relations. Student(s) will also study and analyze the similarities, differences, and contradictions that characterize histories of economic, social and sexual exploitation as they have unfolded in different contexts; time periods; geographical locations; and racial and gendered configurations. Students will gain a deeper understanding of how race, sexuality, gender, and class intersected in ways that significantly shaped the history of the modern world. NOTE: Students cannot earn credit for HIS 160 and HIS 160*D HIS 160*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Credits: Credits:3 (3,0)

HIS 200 Introduction to Historical Methods
The purpose of this course is to provide an introduction to historical methods, including how to research historical events, evaluate sources, properly use citations, produce bibliographies, and write about history. The course also focuses on the teaching of history, including effective pedagogical methodologies, the debate over "political correctness," the use of primary sources, employing technology and visual media in the classroom, and how to address issues such as plagiarism. The course may also include an optional historiography component (at the discretion of

the instructor), which will focus on a particular historical period and/or geographic region, with the aim of exposing students to breadth and width of historical approaches. Prerequisite(s): EGL 102
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

HIS 201 Modern African History
This course explores African experiences in a historical perspective and focus on the periods before, during, and after European colonization of the continent. The class will highlight the varied and constructive ways that African people interacted with the rest of the world, starting with the slave trade and continuing through the present day. It will also demonstrate how Africans have created viable political systems, shaped new forms of democracy and popular participation, developed new forms of environmental preservation and resolved tragic conflicts-thus not focusing on the continent only as a place of crisis, starvation and atrocities but demonstrate the resiliency and determination of African people. NOTE: Students cannot earn credit for HIS 201 and HIS 201*D HIS 201*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Credits: Credits:3 (3,0)

HIS 210 America and the World
This course examines the changing role of the United States in global affairs and its consequences for American society from 1860 to the present. During this period, the US went from an isolated nation to a world power. This class explores such topics as late 19th-century imperialism, American involvement in World War I and II, isolationism and global depression, national security policy and strategy during the Cold War and post-Cold War eras, nuclear proliferation, the War on Terrorism and the balance of power in the 21st century. In addition, this course focuses on world historical themes such as industrialization, population growth, suburbanization and urbanization, and the exploitation of natural resources, and in the process, interrogates within a national and international context the idea of American exceptionalism, the origins and impact of US hegemony, and the use of national histories and ideologies. Prerequisite(s): Any 100 level or higher HIS course.
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 212 Modern World
Analyzes the impact of technology on the major political movements and governmental systems of the modern world since 1900. The course will examine the effects of technology on war, culture, ideology and the future. Fulfills world history and global awareness general education.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HIS 213 Peoples and Cultures of Asia
A study of the peoples, cultures, religions, customs and philosophies of India, China, Japan, and southeast Asia, and discussion of the social and political effects of Mongol, Muslim, and Occidental contacts with the Orient.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HIS 214 East Asia and the World
This course examines modern East Asian history and culture as well as the multifaceted interactions between the region and the world in the global age. Focusing on the historical transformation of China, Japan, and Korea since 1200, this course investigates different aspects of political, economic, social, cultural, and intellectual revolution and transformation. The main topics include the following: cultural encounters between the East and West, imperialism (within the region and imposed from abroad), modernity and political transformations, Japanese territorial aggression and the Pacific War, postwar societal and economic change, the growth of the metropolis, Asian diasporas, and the unique qualities of East Asian modernities. Prerequisite(s): EGL 101
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 215 The World of Islam
An examination of the birth and development of Islam from its beginning to the present. Special emphasis will be placed on the inter-connection of Islam with Judaism and Christianity and the common basis of monotheism. Topics to be discussed include the Ottoman and Mogul Empires, trade and commerce, urbanization, intellectual movements and class formation in the Islamic world. NOTE: Students cannot earn credit for HIS 215 and HIS 215*D HIS 215*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Winter, Spring
Credits: Credits:3 (3,0)

HIS 217 From Constantine to Columbus: Western Civilization in the Middle Ages
This course will examine the development of the major cultural, social, and political movements and institutions of Western Civilization in the period before Columbus. Through both lecture and discussion formats, students will examine the preservation of Greek and Roman learning; Christian civilization and its relation with Islamic culture; the rise of cities, international trade and national capitalism; European learning and the emergence of the university; the rise of the nation-state and the origins of secularism. By the end of the course, students will be able to identify the roots and explain the development of cultural, social, and political institutions that are unique to the Western world.
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 219 Topics in History
A treatment of diverse topics, chosen by the Department of History, Economics, and Politics for their long-term impact and current historical importance.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

HIS 222 Women in U.S. History
In what ways is the history of America a gendered history? Emphasizing the diversity of American women, the course situates the ways women have both shaped and been shaped by American society within the broader context of US history since 1865. Topics for investigation include the way different groups of women have experienced American sectionalism, the industrial revolution, urbanization, immigration, war, economic depression, cultural transformations and political change. We will be looking at both unity and diversity in American society, including the conflicts between women and a society based on patriarchy.
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 233 Comparative Religions and Cultures
Religion is the foundational element of human culture. In this course, we explore spiritual practices across time and space, from Indigenous and place-based beliefs like Òrì#à, Daoism, and Shinto, to the Dharmic faiths of Hinduism, Buddhism, and Sikhism, to the Abrahamic religions of Judaism, Christianity, and Islam. Other systems of belief, including New Religious Movements (e.g., Bahá'í, Scientology, and Wicca), as well as syncretic traditions like Voudoun, are also explored alongside key cultural practices that influence and reinforce understandings of law, ethics, morality, and what lies beyond the material world. NOTE: Students cannot earn credit for HIS 233 and HIS 233*D HIS 233*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

HIS 243 Science and the West: From Newton to Present
This course traces the development of western society from the 16th century to present, focusing specifically on how scientific and technological developments have shaped modern western society and culture. The course proceeds chronologically from the scientific revolution of the 16th century to the present atomic age.
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

HIS 270 Genocide in the Twentieth Century
This course explores the history of ethnic, religious, and other forms of genocide since 1900. The topics covered will include a brief discussion of genocide before 1900 for clarity of definition, then examine the Armenian massacres of 1915-1923, the Holodomor and Gulag in the USSR, the Holocaust (Shoah), China, as well as more recent examples of genocide, including events in Cambodia, Bosnia, and Rwanda. Students will critically examine related issues such as ethnic cleansing, forced labor and population transfers, etc., with a special emphasis on the disturbing role science and technology has played in these events.
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 275 Drug Trafficking in Latin America
This course will analyze the social, political and economic issues that fueled the development of drug trafficking in Latin America and the United States. The course will begin with an overview of the uses of plants such as coca and ayahuasca by indigenous communities in sacred and/or medicinal contexts. The class will also cover the beginning of the "prohibition period" (1910s-1970) when nation-states throughout the western hemisphere banned the consumption, cultivation, sale and distribution of coca, marijuana and poppy (opium). Finally, the class concludes with the War on Drugs in the US and successive policies adopted in Latin America like Plan Colombia (1990s) and Plan Merida (2000s), reconsidering how we are still living with the legacies of these programs. Prerequisite(s): EGL 101 with a grade of C or higher
Credits: Credits:3 (3,0)

HIS 280 Caribbean History
This course explores the Caribbean Basin and places it in the historical context of the larger Atlantic World. The course begins with the arrival of Columbus in the Caribbean Islands and the conquest of the region by Spain. Subsequently, the course will explore the development of the sugar industry, the introduction of African slaves, and the arrival of other European powers in the region, including the French, English and Dutch. Additionally, this course will trace the development of Caribbean nations during the 19th century and their subsequent struggles for economic and political survival. The primary focus of the course will be on the larger islands of Cuba, Hispaniola (Haiti and the Dominican Republic), Jamaica, Cuba, and Puerto Rico, with a brief overview of the Lesser Antilles. NOTE: Students cannot earn credit for HIS 280 and HIS 280*D HIS 280*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 101
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 281 Modern Latin America
This course covers the history of Latin America from the early 1800s until the early 2000s, beginning with the immediate causes and antecedents of the Independence Wars. Subsequent topics include: political and social conflicts in the post-independence period; the rise of the United States as an important economic and political player in the 19th century; industrialization and modernization of Latin America including participation of the region in the war effort during World War II. The course concludes with the political repercussions of the Cold War in the region, and its connection to the neoliberal economic policies established in the 1990s and early 2000s. Special attention will be paid to gender, class, race, and ethnicity, and their influence in the sociopolitical developments of Latin America. NOTE: Students cannot earn credit for HIS 281 and HIS 281*D HIS 281*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 101
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 302 Civil War and Reconstruction
This course examines the primary themes of the Civil War and Reconstruction era through secondary and primary texts within a discussion format. Students are introduced to the origins of the sectional conflict during the antebellum period, the relevance of slavery to the conflict, the formation of southern nationalism and secession, the social, political and economic dimensions of the war effort, emancipation, Reconstruction and Redemption, and the legacy of the war. Prerequisite(s): HIS 121.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 305 Culture and Technology in England
This course is a multidisciplinary examination of the ways in which technology affected everyday life during the Industrial Revolution in England. Covering the years 1750 to 1880, it examines the changes taking place in technology during the period; how these changes ultimately affected the workplace, the home, and the community and how novelists of the period felt about these changes. Note: Students completing this course may not receive credit for HUM 305 or SOC 305. Prerequisite(s): Any HIS course at 100 Level or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 306 Transformation of America
A detailed study of the technological, economic, social, political, ideological and cultural transition of America from a rural, agrarian republic to a complex, industrialized, urban nation in the period from 1820 - 1920. This interdisciplinary course uses primary and secondary material to examine the effect of technology and urbanization on American life. A multi-cultural and cross-gender perspective will provide focus. Prerequisite(s): Any HIS course at 100 Level or higher
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

HIS 307 Germany in the Modern Age
Examines the scientific, technological, political, and cultural development of modern Germany since the Industrial Revolution. Special emphasis to be placed on the interaction of technological developments and their impact on culture, society, and politics from 1815 to the present. Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 308 The Global World Wars
This class will examine the conflict of 1914-1954 from a global perspective, including the long and short term causes of the war. It will highlight such issues as the global ramifications of World War One, the impact of the Great Depression, the rise of fascist leaders throughout the world and the globalized aspect of the fighting throughout this period-including the role of and contributions from the Global South. It seeks to decenter the conflict from specifically European or American perspectives to highlight such topics as comfort women, local resistance fighters and the important role the USSR and China played in the conflict. It will conclude through an examination of the legacy of the conflict and a global analysis of the rise of the Cold War. Prerequisite(s): Any 100 level or higher history class
Credits: Credits:3 (3,0)

HIS 310 Technology and Society Russia-1917-Present
This course examines the connections between industrialization, culture, society, and politics in the Soviet Union and post-Soviet Russia. Topics of discussion include the development of Russian communism, collectivization, the Cold War, ethnicity and religion, and post-Soviet politics and culture. Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 311 China Since 1840
This course is a survey of the major political, social, intellectual, and cultural developments in China from the First Opium War to the present. Using primary texts (historical documents) and other scholarly resources, this course investigates different aspects of China's various "revolutions" (political, social, cultural, and intellectual). The main topics include the encounter between East and West, the transition from an empire to a nation-state, the New Culture Movement, as well as the making of a new vernacular language, the growth of the metropolis, and the various facets of Chinese modernity. Prerequisite(s): Any 100-level or higher HIS course
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 312 Latin American Popular Culture in the 20th Century
This course will explore mass mediated popular culture developed in Latin America within the last century. Cultural industries (i.e. music, television, etc.) are a significant export to the international market from countries like Mexico, Brazil, and Argentina. The class will discuss the different definitions of popular culture and analyze the impact of mass media on such definitions. The class will also examine a variety of cultural productions, including music (i.e. tango, salsa, and reggaeton), cinema, comic books, and telenovelas (Latin American soap operas). Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 314 History of Modern Mexico
This course will examine Mexican history from the Porfiriato period (1876-1910) until the 2000 electoral defeat of the PRI (Partido Revolucionario Institucional). We will begin by studying how the aggressive modernization campaign of dictator Porfirio Diaz created the deep inequality that eventually led to the Mexican Revolution of 1910. The Revolution was (and is) a crucial moment in Mexican history. This course will analyze its main players and the social, political, and ideological legacies of the conflict. Students will investigate the post-revolutionary period and the one party authoritarian state that dominated the political and social life of

the country for over half a century. Prerequisite(s): Any HIS course at 100 Level or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 315 Imperialism: A Modern History
The rise and fall of empires is fundamental to world history. Beginning with the First Opium War and concluding with East Timor's independence from Portugal, this course explores how Europe's maritime empires (Britain, France, Spain, Netherlands, etc.) and continental imperial states (Russia, Austria, and Turkey) acquired, maintained, and ultimately lost their vast colonial possessions in the Americas, Europe, Africa, Asia, and Oceania. Using cross-disciplinary approaches, the connections between imperialism and commercial, technological, and industrial advancement will be explored through analysis of various forms of imperialism, including political, economic, and cultural, as well as its discourses and practices. Related issues such as power, hegemony, capitalism, consumerism, and decolonization will also be examined. The course content may focus on a particular area of the globe (e.g., East Asia, the Middle East, or Latin America) or a particular theme associated with imperialism (e.g., gender, migration, identity, etc.). Prerequisite(s): Any 100-level or higher HIS course
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 317 Irish History
The study of Irish history with a view toward understanding the development of the Irish nation focused upon matters political, legal, religious, and military in nature. Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 318 Israel: A History of the Jewish State
This course provides a comprehensive history of the modern state of Israel. Beginning with Zionism and the settlement of Jews in Ottoman Palestine, we will explore the complex and troubled history of the country up to the present day. Special focus will be placed on the Palestinian issue, the Arab-Israeli conflict, terrorism and counterterrorism, and geopolitics in the Middle East. In addition to the history and politics, we will also explore culture, society, and economics in contemporary Israel. Prerequisite(s): Any 100-level or higher HIS or POL course.
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 319 Special Topics in History
A treatment of diverse topics, chose by the department for their current historical import. The course will require extensive reading and writing. Depending on the topic, travel students should check with the department before registering for this course. Prerequisite(s): Any 100 level or higher HIS course.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

HIS 320 Europe Since the Industrial Revolution
This course examines European history from the period of the Industrial Revolution to the present. Special focus will be placed on how scientific and technological developments impacted politics, society, and culture in Europe and the West more generally. The histories of individual European nation-states will be discussed, as well as major revolutions, periods of intense social change, and the two world wars. Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 322 American History through Film
This history course explores the relationship between historical interpretation and representation through feature films and historical writing. Students analyze key themes, myths, and issues in the American experience by analyzing and contrasting cinematic constructions with written historical texts. The themes studied in this class include the frontier West and rugged individualism, the immigrant experience, the American Dream and assimilation cultural conflict and conquest, war and democratic freedom technological progress and morality, youth and rebellion, power and personality, race and equality, and social change, class and intolerance. Prerequisite(s): HIS 121 or HIS 122 or HIS 125 or Approval of department Chair.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 323 Contemporary America
Depicts America's responses to the Cold War, violence, and military aggression, the emergence of Third World countries, the economic and political impact of rising expectations, the problems of the city and the suburbs, and the quest for social justice. Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 325 America and the Vietnam War
An examination of American involvement in the Vietnam conflict from its origins in the Cold War to its legacies today. It will adopt a multidisciplinary approach and use a variety of mediums, integrating history, literature, and film and utilizing lectures, guest speakers, and discussions. Particular attention will be given to cultural origins and effects of the War. Prerequisite(s): Any 100-level or higher course in HIS
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 326 Pandemics and Disasters in History
This course will examine the political and social responses to pandemics and disasters throughout history, eventually focusing on the 20th and 21st Centuries. Students will investigate how people, communities, interest groups, even nations defend themselves from pandemics and disasters and address the economic and political dislocations associated with such emergencies. Students will examine the responses to these types of emergencies from a historical perspective, with comparisons to contemporary events. By the end of this class students will be able to explain the connections between pandemics and disasters, and their political, social, cultural, and economic effects in history. Prerequisite(s): Any 100 level HIS, POL, GEO class or junior status
Credits: Credits:3 (3,0)

HIS 330 Oral History
What happens to our memories after we are gone? Oral history is one way to preserve memories. Oral histories are one of the most important tools in the historian's trade. Sometimes an oral history is the only record we have of an event or an entire people, which means the oral historian has a special responsibility. This is a hands-on course, which requires that students successfully complete an online Human Research Participants Training program and learn about theories of memory as they prepare for, conduct, and preserve an oral interview. Prerequisite(s): Any HIS course at 100 Level or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 331 History of New York State
This course will examine the development of New York State from its Native American, Dutch, and British colonial origins until today. The course provides an overview and in- depth discussion of the state's history and evolution as part of the United States, its founding ideas and institutions, and how it emerged as the Empire State we know today. In particular, the course will examine the following themes: political parties, ideology, and conflict; race, ethnicity and immigration; the economy, labor, and entrepreneurship; war and society. Prerequisite(s): HIS 121 or HIS 122 or HIS 125
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HIS 332 American Military History
American Military History is a multidimensional survey of the evolution of American Military organization, traditions methods from the colonial era to the onset of asymmetrical warfare in the Middle East. The course will present and analyze the key military events, leaders and strategists, including their influence on, and influence by, political considerations, global interests, public opinion as well as technological and economic factors. Prerequisite(s): HIS 121 or HIS 122 or HIS 125
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

HIS 333 The 1960's in America
This course examines the people, events and issues of the era through a thematic approach within a larger chronological framework and focuses on domestic social, cultural and political developments. Because the 1960s contained so many seemingly disparate topics and issues, the class will

emphasize the connections between and across a broad variety of subjects and disciplines. Topics include the seeds of change during the 1950's; the triumph and breakdown of postwar liberalism; insurgent political and social movements, including the civil rights movement, feminism, antiwar protest, and the New Left; the counterculture; the sexual revolution; drug culture; technology; music; and the legacy of the Sixties. Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 334 The History of New York City
This course examines the origins of New York City as a small Dutch settlement known as New Amsterdam through its incarnation as a mercantile British colony, its growth as a commercial and later industrial metropolis, its emergence as a center of capital and modernity, and its ascendancy along with its decline and subsequent resurgence as a center of global capitalism during the 20th and 21st centuries. The course focuses on the social history of New York City, though it explores cultural, political, technological and economic developments and issues that defined its evolution. As such, the course topics include the influences of ethnicity and race on the city, the definitions, contestations and uses of social spaces, the social lives and roles of upper, middle and lower classes, the lore and intrigue of the larger than life personalities and infamous incidents in shaping the City's history, and the legendary conflicts over urban planning, use and design. Prerequisite(s): Any 100-level or higher HIS or POL course.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

HIS 335 Gender and Technology in Historical Perspectives
The purpose of this course is to provide an overview of the connections between gender roles and technology from comparative and historical perspectives. Studying the past in this way sheds light on key global issues today. How does technology shape feminine and masculine identities in the developed world? What happens to preconceived notions of gender relations and gender identities when the developed world and developing world come into contact? This course focuses on the interaction between technology and gender in the age of globalization and is intended to be interdisciplinary and may begin with a dash of sociology or anthropology, dissecting gender roles in our world today. It will also examine the historical connections between gender roles and technology specifically in the United States. At the discretion of the instructor, topics to investigate may include the function of gender and technology in European exploration, European imperialism, and U.S. expansion. Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

HIS 340 History of Public Health Care and Medicine
The course compares how different societies conceptualize and manage the experiences of birth, illness, and death. Examining shifts in biomedical understandings of disease and transformations in public health practice over time will provide a deeper, historical perspective on current issues in American medicine. Prerequisite(s): Any HIS course at 100 Level or higher
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

HIS 341 Terrorism and the Modern World
This course traces the global impact of terror and terrorism since the first use of the term in 1795. Much of the course focuses on the use of political violence by non-state actors and revolutionary organizations operating both at a domestic and international level. We will compare and contrast the various "waves" of terror which have gripped the globe since the late 1800s and analyze the similarities and differences between groups such as the IRA, the Ku Klux Klan, and al Qaeda. We will also explore state-based terror, specifically the use of fear, surveillance, and the secret police by various regimes in the 19th and 20th centuries. The role of media as an enabler of terrorism and terrorists will also be an important theme throughout the semester. Prerequisite(s): Any HIS course at 100 Level or higher
Course Offered: Summer
Credits: Credits:3 (3,0)

HIS 342 The History of Television
Despite the recent emergence of new communication technologies, television arguably remains the most powerful and important form of communication today--a medium that influences and shapes our views of ourselves and our outlooks on the world. Television helps to bind us together through shared cultural distortions of our social experiences and relations and yet divides us over its short- and- long-term effects, both national and global. This course explores American culture during the post World War II period through an analysis of the history of television from its origins in radio to its future in digital media. It examines television's role in both reflecting and constituting American society through a variety of analytical approaches. The course topics include the structure, economics and dynamics of the television industry, the role of television within American democracy, the variety of television genres, television as a site of gender and racial identity formation, television's role in everyday life, and the medium's technological and social impacts. Prerequisite(s): Any 100-level or higher HIS or POL course.
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

HIS 343 Cinema and the City in East Asia
This is an interdisciplinary, seminar-style course that focuses on the history, culture, society, and everyday life in major urban centers in East Asia as depicted in film. This course draws on movies set in major cities, including Tokyo, Kyoto, Beijing, Shanghai, Hong Kong, Taipei, and Seoul. This course will address such topics as metropolis and modernity, women and gender, war and trauma, love and family relationships, modern and contemporary media, urban and rural contrasts, as well as perceptions of time, identity, and globalization. Prerequisite(s): Any 100-level or higher HIS course
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 344 Sports History Since 1945
This course examines the rapid growth of the appeal and role of sports in American life since 1945, especially the ways the sports industry in the United States has shaped class, racial, gender, and national identities. Through the examination of a diversity of professional and college sports, this course explores the impact of corporate sponsorship and influence, drug use, the presence of women and African American players, new technologies and other effects as the function of larger changes in American society. Students will explore the role of sports in both encouraging good citizenship and morality and in condoning cheating, violent behavior and financial greed. Prerequisite(s): Any HIS course at 100 Level or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

HIS 350 Global Environmental History
This course examines how humans have interacted with and impacted the planet from the advent of Homo sapiens to today, but especially since the confluence of the Industrial Revolution and the Age of Imperialism(1870-1914). The history of human-environmental interactions will focus on the mechanization of agriculture, deforestation/forestry management, advances in transportation, and the ways in which humans have decreased biodiversity via the introduction of new crops and animal species around the globe, as well as hunting, fishing, and other interactions with Earth's biota. Additional topics include fossil fuel exploitation, the nuclear age, the Green Revolution, mass urbanization, and current planetary crises including climate change, mass extinctions, rampant pollution, and ocean acidification. Prerequisite(s): Any 200-level or higher of HIS, POL, GEO or GIS course
Credits: Credits:3 (3,0)

HIS 351 The Ottoman Empire and Modern Turkey
The purpose of this course is to provide a comprehensive survey of key aspects of the history of the Ottoman Empire and modern Turkey. In the first section of the class, we will explore the history of Turkic nomads, Byzantium, the Muslim Levant, and the formation of the empire. In subsequent modules, the focus will be on Ottoman political and commercial development, the conquest of the Balkans, the Sublime Porte's interaction with world powers, imperial overreach, and faith and identity in the multinational Ottoman state. In the last part of the course, we will explore the radical changes wrought by the rise of the Young Turks and the effects of the Great War (including the Armenian Massacres), moving on to a discussion of Kemalism and contemporary Turkey. Prerequisite(s): One Western Civilization course or equivalent or EGL 102.
Credits: Credits:3 (3,0)

HIS 355 Disney's Impact on History and American Culture
This course demonstrates how history impacted Disney and how Disney impacted history. It will recognize various historical keystones in his life such as the Great Depression, and World War II, US Foreign Policy and the "Good Neighbor" Policy, the Cold War and conclude how Walt affected American culture and history during these time periods. Historical emphasis will be placed on topics such as Disney's influence and outcome on animation,

technology, merchandising, licensing, theme parks, television, training, travel, music, Broadway, World's Fairs, and governmental involvement as well as societal impacts and industry, and social norms. Prerequisite(s): Any 100 Level HIS, POL, GEO, or GIS course Credit(s): 3
Credits: Credits:3 (3,0)

HIS 360 Madness in the Modern Age
What is insanity? How do societies define pathology? How have categories such as gender, race, class, and sexuality shaped views of mental health? Answering these questions highlights why psychiatry is one of the most complex fields of medicine today. This course will explore the answers to these questions by examining the history of madness. By focusing on the evolving ways historians have written on the subject of madness, students will learn about issues of interpretation in the production of knowledge. Topics to be covered include madness in antiquity, the asylum movement, early efforts to identify mental illnesses as biochemical disorders, the origins of psychoanalysis, and the development of the Diagnostic and Statistical Manual (DSM). Prerequisite(s): Any 100-level or higher HIS course.
Course Offered: Fall
Credits: Credits:3 (3,0)

HIS 365 Public History
Why do so many Americans claim to hate history as a subject, yet spend their weekends visiting historic sites, watching historical films, performing genealogical research, or otherwise engaging with the past? This course will explore this question by introducing students to the field of public history. We will study the many ways that history is put to work in the world outside of the classroom. Topics to be covered include oral history, museum studies, walking tours, documentary films, websites, and social media. Prerequisite(s): Any 100- level or higher history course.
Course Offered: Fall
Credits: Credits:3 (3,0)

HONORS PROGRAM (HON)

HON 101 Life of the Mind
In this seminar, students interrogate their assumptions about academic institutions and how knowledge is constructed. A focus on various topics, including the history of the university, theories for learning, knowledge in the disciplines, and philosophical and personal epistemology, will support students in their development of academic agency and intellectual curiosity. Such work will prepare and motivate students to become knowledge-creators within their own discipline. HON 101 is the first of a three-course sequence. NOTE: This course is an Honors Designated Course and can only be taken by students enrolled in the Honors Program. Prerequisite: Enrolled in the Honors Program.
Course Offered: Fall
Credits: Credits:2 (2,0)

HON 201 Life of the Scholar
This course teaches scientific methodologies to novice researchers. The ability to assess information as accurate or inaccurate is an important skill for every student. HON 201 focuses on the use of a systematic research approach to the collection, analysis, and application of data in relatable disciplines. This course is largely theoretical in nature and focuses on the theoretical underpinning of research methodology in the academic setting. It is designed to enhance student's ability to reason, synthesize ideas, and organize thought and knowledge, and therefore meets the requirements of a liberal arts and sciences elective course. Emphasis will be placed on observational and experimental study designs, quantitative, qualitative, primary, and secondary data, and introductory statistics. In addition, students will learn how to conduct evidence -based literature reviews and techniques on how to collect, interpret, and present their own data. Accumulation of the information in this course will prepare the student to author and present their own research paper for next semester's seminar, HON 301. NOTE: This course is an Honors Designated Course and can only be taken by students enrolled in the Honors Program. Prerequisite(s): HON 101 with a grade of C or higher.
Course Offered: Fall
Credits: Credits:1 (1,0)

HON 301 Life of the Practitioner
HON 301 is an honors-level course designed to prepare students to conduct research as practitioners in their respective disciplines. This course focuses on the application of scientific methodologies to address society's most pressing challenges from a discipline-specific perspective. Students will collaborate with a faculty to frame a problem and synthesize research skills acquired in previous honors courses to author and present their research solutions. This interdisciplinary course emphasizes critical thinking, problem-solving, and effective communication, enabling students to contribute meaningfully to their fields of study and to the ongoing discourse surrounding complex societal issues. This course promotes applied learning, collaborative efforts. and civic engagement while exploring avenues for publishing research, presenting findings, and writing grants. Prerequisite(s): HON 201 and enrollment in Honors Program
Course Offered: Fall
Credits: Credits:1 (1,0)

HORTICULTURE (HOR)

HOR 100 Introduction to Plant Science
Success in advanced horticulture study requires an understanding of biological processes that operate at the molecular, cellular and organismal levels along with an appreciation for concepts of evolution and ecology. Topics addressed from the perspective of horticulture via lecture and laboratory participation include cell structure and metabolic activities such as respiration and photosynthesis. Students will be introduced to plant life cycles, basic chemistry, plant structure and physiology. Principles of genetics such as probability and Mendelian theory are also explored. Note: For students in the BS program this course serves as a prerequisite for BIO 192 Botany. Needs lab statement. Corequisite(s): HOR 100L
Course Offered: Fall
Credits: Credits:4 (3,2)

HOR 105 Landscape Gardening
Classroom studies in landscape appreciation. The elements and principles of art for creative design with application in lettering, freehand, and perspective drawing. Field application in garden improvement and operation.
Course Offered: Fall
Credits: Credits:1 or 1 (1,6)

HOR 106 Nursery Management
An introductory nursery course in the techniques and practices used in the commercial production of herbaceous perennials, ground covers, deciduous shrubs and trees, conifers, and broadleaved evergreens. Greenhouse and nursery procedures and practices.
Course Offered: Fall
Credits: Credits:1 or 1 (1,6)

HOR 107 The Plant Science of Cannabis
Successful cultivation of Cannabis requires an understanding of the fundamental plant science principles that govern the growth of all plants. This course offers an overview of plant structure, growth processes, cultural factors, and propagation. Students will acquire the tools necessary to begin a program of Cannabis production. Cannabis is utilized as the model plant throughout all phases of instruction.
Credits: Credits:3 (3,0)

HOR 110 Horticulture I:Introduction to Plant Science
Cultivated plants are central to life on Earth and understanding their needs fosters an appreciation for the fragility of our natural environment. This survey course provides a broad introduction to the biological, chemical, and physical determinants of plant growth and performance. Topics include nomenclature, plant life cycles, soil and nutrition, plant cultivation and maintenance, and the history of cultivated plants. Throughout the course, students will apply the scientific method during experimentation, data collection, and analysis of exercises conducted in the greenhouse. The Robert F. Ench Teaching Gardens serve as a laboratory to explore various aspects of informed plant cultivation. Corequisite(s): HOR 110L
Course Offered: Fall
Credits: Credits:3 (2,3)

HOR 111 Horticulture II-Growth and Development of Cultivated Plants
Understanding the performance of cultivated plants reveals our connection to the living environment and our responsibility as stewards. Plant growth is influenced by myriad biological, chemical, and environmental variables that mitigate growth and survival. By understanding the scientific basis for these factors, we are better prepared to customize growing conditions that promote thriving plants and environmental well-being. This course surveys the environmental forces (including global climate change) and physiological processes that affect plant growth, adaptation, senescence, dormancy, flowering, and propagation. During laboratory exercises,

students implement the scientific method through experimentation, data collection, and interpretive analysis. Prerequisite(s): HOR 110 Corequisite(s): HOR111L
Course Offered: Spring
Credits: Credits:3 (2,2)

HOR 112 Soils: The Foundation of Life
This survey course explores the central role of soils as a dynamic living system which influences land use, plant growth, environmental health, and societal well-being. Fundamental soil properties such as its geologic origins and physical, chemical, and biological behavior are addressed comprehensively. Through classroom lecture and investigative laboratory exercises, students survey the functions of soil, understand its classification and management parameters, and appreciate the urgency of global conservation efforts. Corequisite(s): HOR 112L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

HOR 115 Home Landscaping and Maintenance
A survey course designed for the homeowner who is interested in landscaping a home and learning how to maintain plant material. Topics covered include basic design principles, foundation plantings, and the use of flowers in the design; as well as the planting, pruning, fertilizing, and care of plant material used in the design.
Course Offered: Summer
Credits: Credits:2 (2,0)

HOR 116 Residential Horticulture and Landscape Design
A survey course designed as an elective for non-horticulture majors who are interested in landscaping their homes and learning how to maintain plant materials. Topics covered include basic design principles, foundation plantings, and the use of flowers in the design; as well as the planting, pruning and care of plant material used in the design.
Course Offered: Summer
Credits: Credits:3 (2,2)

HOR 119 Insects and Diseases of Lawns and Gardens
The nature of insect and disease organisms will be studied. Pest control regulations, insecticides, fungicides, herbicides and equipment are discussed, including identification of common insects and disease of lawns, garden flowers, trees, and shrubs; also weeds and their control. Fruit and vegetable pests are also covered.
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 127 Horticultural Seminar
This course provides an overview of the industry, and major areas of development; it will provide an opportunity for students to hear from representatives of the industry. Students will be provided with the basis for an assessment of future career opportunities as well as the opportunity to evaluate their individual needs for continuing education.
Course Offered: Fall
Credits: Credits:1 (1,0)

HOR 129 Landscape Drafting
The introduction to landscape drafting; including the use of drafting equipment, drawing of landscape symbols, lettering techniques, and perspective drawing.
Course Offered: Fall
Credits: Credits:1 or 1 (2,2)

HOR 131 Landscape Drafting I
This course introduces students to essential drafting techniques and design fundamentals. The student develops graphic skills in landscape drafting and layout by utilizing drafting instruments to produce landscape plans. Students visualize space by learning plan view, orthographic projection, section/elevation design and are introduced to perspective design techniques. Emphasis is placed upon representation, definition, and expression of landscape concepts. Through lectures, workshops and in-class exercises, students explore techniques in black-and-white media. The goal is to learn how to develop drawing skills so that students can present proposed garden designs to clients. Each student is required to produce and present a final set of drawings suitable for presentation to a client or inclusion in a portfolio. This course has a laboratory component (HOR131L). Corequisite(s): HOR 131L
Course Offered: Fall
Credits: Credits:3 (2,2)

HOR 132 Horticulture Practice I
Application of classroom theory to practical situations in the field. Students are assigned to areas in the greenhouse, gardens, nursery, and plant collections to learn and practice the art and skills of gardening. Students are given supervision in the field by faculty and staff from the Horticulture Department.
Course Offered: Summer
Credits: Credits:1 (0,2)

HOR 133 Landscape Drafting II
This course continues the development of graphic skills introduced in Landscape Drafting I. Students discover how to visualize space by learning perspective design, orthographic projection and section elevation design. Prerequisite(s): HOR 131 Corequisite(s): HOR 133L
Course Offered: Spring
Credits: Credits:3 (2,2)

HOR 134 The Production of Cannabis I
Prospective Cannabis growers are presented with many options when selecting a production system appropriate for their conditions and needs. This course offers a comprehensive overview of the many alternatives available and the benefits of each. Students will learn how to manipulate the environment to better control the growth and development of Cannabis. Both indoor and outdoor production systems will be explored.
Credits: Credits:3 (3,0)

HOR 157 Introductory Floriculture
This course provides an introduction to floriculture and includes basic floral design, preparation, and care and identification of indoor flowering and foliage plants.
Course Offered: Fall
Credits: Credits:1 or 1 (2,2)

HOR 171 Landscape Techniques
This course has two distinct components. During the first half of the course students are introduced to the studio techniques of landscape design including drawing techniques such as perspective design, orthographic projection, section/elevation design, and rendering techniques. In the second half of the course, students are taught the field skills required to install, maintain and improve gardens and landscapes. These techniques are practiced during the laboratory section. Note: Students completing this course cannot receive credit for HOR 133. Prerequisite(s): HOR 131 Corequisite(s): HOR 171L
Course Offered: Spring
Credits: Credits:3 (1,4)

HOR 200 Herbaceous Plants I
Lecture and field study of the nomenclature, identification, ornamental attributes, cultural requirements and horticultural uses of annuals, summer display plants treated as annuals, spring and summer flowering bulbous plants used in gardens. Corequisite(s): HOR 103L
Credits: Credits:3 (2,2)

HOR 201 Arboriculture
This course introduces the theory and application of caring for ornamental trees. Students learn essential techniques including climbing, pruning, bracing, cabling, bark and cavity repair and fertilization. Demonstration techniques, pruning practices and tree climbing skills are also taught. Prerequisite(s): BIO 192 Corequisite(s): HOR 201L
Course Offered: Fall
Credits: Credits:3 (2,3)

HOR 203 Greenhouse Management I
A study of greenhouse structures used for commercial production of cut flower and pot plants crops. Various construction and maintenance techniques will be discussed, as well as greenhouse ventilation and cooling equipment. Practical application of greenhouse equipment will be discussed and applied to the production of crops. Corequisite(s): HOR 203L
Course Offered: Spring
Credits: Credits:3 (2,2)

HOR 204 Herbaceous Plants II
Lecture and field study of the nomenclature, identification, ornamental attributes, cultural requirements and horticultural uses of hardy perennial plants used in gardens including ferns, ornamental grasses, wild flowers, and herbs. Naturalistic woodland and rock gardens are introduced as well as the principles to design perennial borders. Corequisite(s): HOR 204L

Course Offered: Spring
Credits: Credits:3 (2,2)

HOR 207 Landscape Plans I
The course covers the theory and principles of applying landscape design skills for solving landscape problems. Students learn the design process from creating preliminary sketches to final presentation drawings including, plans, section elevations, freehand and perspective sketches. Prerequisite(s): HOR 133 Corequisite(s): HOR 270L
Course Offered: Fall
Credits: Credits:3 (1,4)

HOR 208 Nursery Production
This course explores commercial nursery stock production topics dealing with plant growth patterns and plant responses in relation to soils, water, fertility, planting techniques, spacing requirements and pruning. Additional topics covered include plant production cycles and rotations, and treatment for economy production. Emphasis will be placed on the commercial propagation of woody plants by sexual and asexual means.
Course Offered: Spring
Credits: Credits:1 or 1 (3,3)

HOR 209 Planting Plans I
The course emphasizes the various types of plans the landscape designer must know how to read and draw. Sight analysis, grading plans and planting designs will be covered in detail as they pertain to residential site projects. Additionally students will be shown how to incorporate illustrative visual media to accompany developed plans.
Course Offered: Spring
Credits: Credits:1 or 1 (1,6)

HOR 210 Horticulture Materials and the Environment
This course is intended to focus on various horticultural materials and practices that have an impact on the public and the environment. Discussion and classification of horticultural materials such as fertilizers, growth regulators, pesticides, etc., as well as their regulatory and safety measures will be explored throughout the course. Finally, alternative management practices which reduce the use of horticultural materials and cultural methods will be examined. The current computer software available in the library on various topics will also be utilized during the semester.
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 211 Woody Plants I
The Woody Plants courses give a picture primarily of the woody plants grown in nurseries for landscape purposes, and secondly of those found in arboretums, woodlands, and fields of Northeastern United States. Emphasis is on identification, culture, uses, flowers, and fruits, and ecological relationships. Several of the evergreens, broad and narrow leaf, as well as some of the deciduous trees and shrubs will be covered in this first study. Corequisite(s): 211L
Course Offered: Fall
Credits: Credits:3 (2,2)

HOR 212 Woody Plants II
A continuation of Woody Plants I covering additional evergreens, broad and narrow leaf, as well as deciduous plants, trees, shrubs, vines and ground covers. Corequisite(s): 212L
Course Offered: Spring
Credits: Credits:3 (2,2)

HOR 213 Arboriculture II
Advanced theory, practice and field studies of the arboriculture industry, including care and pruning of fruit plants, diagnosis of tree ills, shade tree evaluation, and power equipment. Business practices and organization including management, record keeping, estimating, customer relations, ethics and standards. Prefaced by an overview of the arborist industry.
Course Offered: Fall
Credits: Credits:1 or 1 (2,3)

HOR 214 Horticulture and Turfgrass Equipment
A study of the types of powered equipment used by the industry. Small engines and power sources are studied. Emphasis is placed on selection maintenance and operation of this equipment.
Course Offered: Fall
Credits: Credits:1 or 1 (2,2)

HOR 216 Greenhouse Management II
The study of florist crops, modern technical applications, and cultural requirements, as used in the production of cut flowers and pot plants in the floriculture industry.
Course Offered: Spring
Credits: Credits:1 or 1 (2,3)

HOR 218 Indoor Plants
A study of various plants that are suitable for indoor culture. Emphasis will be placed on identification, propagation, cultural requirements, ecological and aesthetic values. Corequisite(s): HOR 218L
Course Offered: Fall
Credits: Credits:3 (2,2)

HOR 219 Landscape Construction
This course examines techniques and material selection for designing and building steps, walks, walls, fences and other landscape features and structures. Basic skills in landscape surveying will also be emphasized. Corequisite(s): HOR 219L
Course Offered: Fall
Credits: Credits:3 (2,3)

HOR 220 Landscape Plans II
The theory and principles of landscape design are applied to selected landscape problems. Projects comprise preliminary sketches and final presentations in plan, elevation and perspective forms. Students prepare contract documents: plans, specifications and estimates in relationship to comprehensive landscape planning. Prerequisite(s): HOR 207 Corequisite(s): HOR 220L
Course Offered: Spring
Credits: Credits:3 (1,4)

HOR 223 Floral Design I- Basics
This course is intended for majors and non-majors who seek to develop basic skills of floral design. Students will be given lectures on the selection, availability and use of various materials used in floristry. Additionally, exercises are designed to focus on developing artistic techniques for creating floral works that have personal and commercial value. The structure and mechanics of floral pieces as well as principles, patterns and elements of design are stressed. Topics include traditional arrangements, special occasion arrangements, holiday arrangements as well as wedding and sympathy work. Students are expected to learn and identify the major flowers used in the trade. They will become familiar with the seasonality and availability of floral crops. A separate materials fee applies to cover cost of flowers and supplies used within coursework. Corequisite(s): HOR 223L
Course Offered: Fall, Spring
Credits: Credits:3 (1,4)

HOR 226 Floral Design II – Advanced
This course allows students with basic floral design knowledge and skills to continue their growth in the field. Through lectures and extensive lab exercises students explore the availability, proper selection and usage of diverse floristry materials. Projects focus on creating designs that have personal aesthetic appeal and functional value for specific purposes such as parties, weddings, funerals, Romantic/English Garden themes, European styles and tropical arrangements. Emphasis is placed on construction at an advanced level both mechanically and artistically. Students work individually and on group projects. Proficiency with florist business skills such as retail orders, cost analysis, client relationships, management of personnel and delivery services is also stressed. Prerequisite(s): HOR 223 with a grade of D or higher Corequisite(s): HOR 226L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

HOR 227 Computer Landscape Graphic Design
The integrated graphics environment of the Macintosh computer combined with contemporary printing technology permits creation of sophisticated landscape graphics. Intended for the landscape design professional who needs an alternative method to present landscape plans or planting plans. This course covers the Macintosh hardware and software available to the landscape designer in order to maximize them to obtain professional results. Prerequisite(s): HOR 131 and HOR 133
Course Offered: Spring
Credits: Credits:1 or 1 (1,4)

HOR 228 Current Horticultural Topics
Topics of current horticultural interest will be selected by the Horticulture Department and covered in depth. The topics to be covered will be announced in the course bulletin each semester the course is offered.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

HOR 234 The Production of Cannabis II
Students will learn how to create a Cannabis production program that will address each stage of growth and processing. Potential problems such as insect pests, plant diseases, bud deterioration, and crop scheduling are also discussed so students are prepared to solve a diverse range of production challenges. Prerequisite(s): HOR 134
Credits: Credits:3 (3,0)

HOR 235 Tropical Plants in Costa Rica
By exploring one of the most beautiful and bio-diverse eco- systems of the world students will enrich their course study by having the unique opportunity to combine their understanding of tropical plants, gain the knowledge of their importance, and their role in sustaining the surrounding ecology. In addition, by being immersed in another culture and being engaged in cross- cultural comparisons, students will gain a better understanding of the connection between the physical environment and social environment. Prerequisite(s): Advisement and permission of department chair.
Course Offered: Winter, Summer
Credits: Credits:3 (2,2)

HOR 236 Drainage and Irrigation
The efficiencies of various drainage and irrigation concepts are discussed as they pertain to terrain, soils, climate, and plants being grown. Water sources, availability and storage are taught along with pressure requirements and means of conveyance. When to irrigate, how to irrigate and rates of application are discussed as they relate to soils and terrain. Prerequisite(s): Department approval or HOR 129.
Course Offered: Fall
Credits: Credits:1 or 1 (2,2)

HOR 236 Drainage & Irrigation
The efficiencies of various drainage and irrigation concepts are discussed as they pertain to terrain, soils, climate, and plants being grown. Water sources, availability and storage are taught along with pressure requirements and means of conveyance. When to irrigate, how to irrigate and rates of application are discussed as they relate to soils and terrain. Prerequisite(s): Department approval or HOR 129.
Credits: Credits:1 to 1 (2,2)

HOR 238 Turfgrass Culture
A study of fine turfgrasses: soil, propagation, maintenance, growth requirements, and identification characteristics. Numerous materials, equipment, operations, usages, programs, and work procedures for proper and efficient management of specialized turfgrass areas, including golf courses and institutional and residential properties are studied. Prerequisite(s): HOR 112 Corequisite(s): HOR 238L
Course Offered: Fall
Credits: Credits:3 (2,2)

HOR 241 IPM for Landscape Pests
Discussion of alternative pest control programs with emphasis on their safety and environmental quality. Such programs will include: mechanical or physical removal of the pest, biological control such as introduction of beneficial organisms (both micro and macro organisms), and chemical control. Chemical control will be discussed in conjunction with other methods as a last resort.
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 248 Woody Plant Diagnostic Technology
This course will cover the techniques and procedures required for proper identification of woody plant problems. The student will be required to draw upon the cumulative educational experiences of the first three semesters in identifying insect disease, site and physiological problems affecting woody plants. The use of keys and integrated control measures will be stressed. Prerequisite(s): HOR 112, 211, 201 Corequisite(s): HOR 248L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

HOR 250 Plant Propagation
A study of the fundamental techniques and the theory and principles involved in the production of horticultural plants by seeds, cuttings, layering, and grafting. Corequisite(s): HOR 250L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

HOR 252 Ecology
The study of the relationships of organisms to their environment and to each other. Emphasis is on plant relationships. Field trips will be taken to various ecological plant communities.
Course Offered: Fall, Summer
Credits: Credits:1 or 1 (2,3)

HOR 255 Interior Landscaping
The course will concentrate on the design, installation and maintenance of interior plantings in both commercial and residential settings. Topics include principles of design, preparation of plans, interior horticultural practices, and cost estimating. Prerequisite(s): HOR 218 Corequisite(s): HOR 255L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

HOR 265 Horticulture: Special Project (A)
This independent study course offers students experience in research and its application to the horticulture industry. Under the direction of a faculty member, students select a topic of interest within their area of specialization. The number of credits will be determined by the complexity of the program agreed upon by the student and the Department Chairperson.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 to 1 (0,0,1 to 1)

HOR 266 Horticulture: Special Project (B)
This independent study course offers students experience in research and its application to the horticulture industry. Under the direction of a faculty member, students select a topic of interest within their area of specialization. The number of credits will be determined by the complexity of the program agreed upon by the student and the Department Chairperson.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 to 1 (0,0,3 to 3)

HOR 267 Horticulture: Special Project (C)
This independent study course offers students experience in research and its application to the horticulture industry. Under the direction of a faculty member, students select a topic of interest within their area of specialization. The number of credits will be determined by the complexity of the program agreed upon by the student and the Department Chairperson.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 to 1 (0,0,3 to 3)

HOR 268 Horticulture: Special Project (D)
This independent study course offers students experience in research and its application to the horticulture industry. Under the direction of a faculty member, students select a topic of interest within their area of specialization. The number of credits will be determined by the complexity of the program agreed upon by the student and the Department Chairperson.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 to 1 (0,0,3 to 3)

HOR 269 Horticulture: Special Project (E)
This independent study course offers students experience in research and its application to the horticulture industry. Under the direction of a faculty member, students select a topic of interest within their area of specialization. The number of credits will be determined by the complexity of the program agreed upon by the student and the Department Chairperson.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 to 1 (0,0,3 to 3)

HOR 271 Landscape Engineering Tech
This course will study landscape structures and landscape features with an emphasis on engineering principles and hands on applications. Topics will include: concrete construction, brick, bluestone and modular patios, wall construction, retaining wall engineering, pavings, walks, and

drives, fence and gate construction, decorative pools, fountains, drainage structures, landscape lighting, pergolas arbors, gazebos. Labs will consist of engineering layout and construction of patios, decks, fences, etc.
Prerequisite(s): HOR 171 Corequisite(s): HOT 271L
Course Offered: Fall
Credits: Credits:2 (1,3,4)

HOR 275 Italian Gardens: Art and Nature
This course is held in conjunction with Florence University of the Arts during a three week summer semester in Italy. Participants have the opportunity to study and experience the rich history of Italian gardens, particularly those created during the Renaissance and Baroque ages, in and around Florence. Students become garden detectives and peel away the layers of garden additions, deletions, and restorations in order to understand and experience landscapes as they were first conceived and constructed in the 15th, 16th, and 17th centuries. The contemporary layout, artifacts, and plants within each garden are compared with historic accounts and illustrations depicting the original layout. The patrons, architects, and artists who created and contributed to each garden and the design theories they employed will be discussed "in situ" and through museum visitation.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (2,2)

HOR 290 Internship in Urban Horticulture & Design
An internship within the field of horticulture and landscape design provides students with valuable professional work experience in an appropriate industry setting. Feedback reporting maximizes the potential for reflection, personal and professional growth through discussion with faculty advisors and peer cohorts. This intensive applied learning opportunity supports and enhances classroom activities. Prerequisite(s): Completion of 50 credits with a GPA of 3.0 and/or permission of the Department chair.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (1,0,6)

HOR 310 Perennial Plant Management
This course is a practical field study addressing the horticultural management of herbaceous perennials plants grown within garden settings. As the growing season progresses, students will experience the growth cycle changes that occur to hardy, herbaceous, perennial plants. Students will learn the maintenance requirements that plant growth dictates and advancing senescence necessitates. Prerequisite(s): HOR 204 Corequisite(s): HOR 310L
Course Offered: Fall, Summer
Credits: Credits:3 (1,4)

HOR 311 Woody Plants III: Advanced Topics
This course supplements topics addressed in the core woody plant curriculum and expands in new directions. Contemporary topics will be discussed such as native vs. non-native plants, invasive plants and alternatives, xeriscaping and sustainable plant selection. It is hoped that students will hone their ability to select appropriate woody plant material for challenging landscape situations and become aware of contemporary issues in horticulture. Guest speakers, outdoor laboratory exercises and field trips will be organized to complement classroom instruction. Prerequisite(s): HOR 211 and HOR 212 Corequisite(s): HOR 311L
Course Offered: Spring
Credits: Credits:3 (2,2)

HOR 312 Selecting and Designing with Native Plants
The appropriate selection and use of native plants (herbaceous and woody species) balances aesthetic demands with environmental concerns and the needs of local flora and fauna. This course will first explore the meaning of "native" and the scientific basis for utilizing species indigenous to the New York City metropolitan area. We will then address plant selection in the context of specialized ecological communities and the design of landscapes with native plant material. Classroom instruction will be supplemented with visits by experts and trips to sites that illustrate course concepts.
Prerequisite(s): HOR 110
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 315 Plants and Society
Plants and their cultivation have been an integral part of human history and will continue to be in the future. Through an in depth look at crops, including ornamental, medicinal and agricultural species, the importance of plants will be examined. Students will learn the major crops of the world, the basic science behind plant breeding, agriculture and plant based pharmaceuticals as well as the importance and limitations of emerging technologies such as genetically modified plants. Prerequisite(s): HOR 111 and BIO 192
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 320W Public Garden Management (Writing Intensive)
Students will be introduced to the range of operations that occur within botanic gardens, arboreta, and other public garden institutions, and will develop skills required to become effective managers of these living plant collections. Students will also form communication channels with public garden professions. Course requirements include a research project tailored to the student's career objectives. Following this course it is recommended students pursue a summer public garden internship. This is a writing-intensive course. Note: Offered at the discretion of the Ornamental Horticulture Department Prerequisite(s): HOR 110 or 111 and EGL 101 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (2,2)

HOR 325 The Business of Horticulture
The horticulture and landscape industry presents unique business challenges. In this course students will apply horticultural theory to general principles of management, merchandising, advertising and sales as they explore settings within the green industry. Familiarity with these business aspects will allow students who complete the course to better exploit existing opportunities and launch new ventures. Traditional classroom instruction may be supplemented by site visits to horticulture enterprises and lectures delivered by accomplished industry professionals, including program alumni. Prerequisite(s): BUS 111
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 328 Principles of Plant Pathology
While often unnoticed, plant diseases can cause significant losses in plant production and in the landscape. In order to reduce these losses, it is necessary to have an understanding of plant pathology. This course explores the types of plant pathogens that horticulturists will likely encounter and how they interact with plants. The process of disease diagnosis and the principles of disease management will also be covered. Laboratory activities will provide the opportunity for students to identify common plant pathogens, diagnose plant diseases, and gain a better understanding of plant/pathogen interactions. Note: Students who have taken BIO 353/354 will not get credit for HOR 328. Prerequisite(s): HOR 111 or BIO 131 Corequisite: HOR 328L
Credits: Credits:4 (3,2)

HOR 330 Weed Science and Management
Discussion of the origin and history of weed science and weed control. Life cycle, growth and development, weed interference and competition with plants will also be explored. The course will also emphasize physical, cultural, biological and chemical control of weeds. Herbicides and their selectivity, performance and methods of application will also be discussed.
Prerequisite(s): HOR 111 or HOR 110 Corequisite(s): HOR 330L
Course Offered: Spring
Credits: Credits:3 (2,2)

HOR 335 Premaculture
This course is an introduction to permaculture, the practice of designing systems modeled from ecological relationships that respect the land while serving its inhabitants. Topics to be addressed in this course include permaculture theory, systems-thinking, site assessment and analysis -- patterns of sun/shade, drainage, vegetation -- and innovative application techniques. Students apply these topics to a real design project and recommend appropriate permaculture applications such as perennial food production, soil regeneration and integrated water management.
Prerequisite(s): HOR 110 and Junior level or permission of Department Chair
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 340 The Sustainable Garden
Healthy sustainable landscapes provide benefits to human functioning, health and well being. But just what is a "healthy landscape?" What are the major tenets of "Sustainability?" What does it mean to "Go Green?" In the Sustainable Garden course we will define, investigate and promote sustainable garden design, land development and management practices. We will investigate how to transform sites with and without buildings

utilizing integrated sustainable principles. The course will provide students with tools to address increasingly urgent global concerns such as climate change, loss of biodiversity, and resource depletion. It will have value for those who design, construct, operate and maintain landscapes. Prerequisite(s): HOR 131 Corequisite(s): HOR 340L
Course Offered: Fall
Credits: Credits:3 (2,2)

HOR 345 Urban Planting Design
This course will address plant selection in the context of the design of landscapes in various settings: suburban and urban residential settings; commercial and adaptive reuse settings. We will address design principles and the use of plants for many situations such as foundation plantings, themed gardens, and challenging landscape settings. We will explore contemporary landscape design issues pertaining to native plants, plant communities and landscape restoration, and discuss the proper cultural and maintenance techniques for improving soils, and planting, fertilizing, irrigating, pruning and care of plant materials used in each design setting. Prerequisite(s): HOR 131 and Junior level or permission of department chair.
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 350 The Art History of Garden Design and Landscape Architecture
Gardens and cultivated landscapes are works of art whose development offers a historical snapshot of the societies and historical movements that shaped them. Studying the evolution of gardens, landscapes and urban spaces in Europe, Asia and North America allows us to interpret the history, art and cultures of these regions. This historical survey charts the designed landscape from pre-history to the present with an emphasis on the historical perspective, analytical skills and specialized vocabulary necessary to understand and describe gardens, landscapes and the artistic movements they reflect. Note: Students cannot get credit for HOR 350 and 350W; HOR 350W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Ornamental Horticulture Department Prerequisite(s): EGL 101 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

HOR 360 Landscape Surveying Skills
This elective course is intended for Landscape Development and General Horticulture students who wish to develop skills in the use of basic surveying instruments such as tape, level and transit. These skills are used to record existing location of structures and ground form. Students will learn to use these methods for installation of new structures and alteration of landform. Conventional methods for recording notes and standard methods in mathematical procedures will be covered. Prerequisite(s): HOR 171 Corequisite(s): HOR 360L
Course Offered: Fall
Credits: Credits:3 (2,3)

HOR 366 Special Topics in Horticulture
Topics of current interest in ornamental horticulture will be presented and covered in depth. Course material will vary semester to semester and reflect pressing issues and topics facing the field. Subject material will be announced prior to registration for the semester. Prerequisite(s): HOR 112 and HOR 111
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

HOR 370 Landscape Professional Practices
This is a course about the student's future as a horticulturist, landscape designer, contractor, a business professional and a citizen. Students will learn the skills required to start and manage a professional practice in their chosen field. The basics of business structure, insurance, contracts, and business investment will be addressed. Students will produce a cohesive business plan that incorporates defining their marketplace, developing a communication strategy, and cash-flow planning. They will also learn how to put together a portfolio and make effective use of technology to leverage the efficiency of their existing or proposed practice. Prerequisite(s): HOR 207
Course Offered: Spring
Credits: Credits:3 (3,0)

HOR 371 Landscape CAD I
This course is an introduction to computer aided design/ drafting. This course includes all the functions of AutoCad plus specific tools and solutions for professionals in the land development industry. This course will focus solely on two-dimensional aspects of AutoCad. Each student will acquire CAD experience from using the program at his or her own workstation. We will perform exercises to develop skills from file set-up to creating 2D drawings to plotting. Our goal in the class is to become comfortable, efficient and competent computer drafters. Each student is required to produce a landscape site plan. Prerequisite(s): HOR 131 Corequisite(s): HOR 371L
Course Offered: Spring
Credits: Credits:3 (1,4)

HOR 372 Site Engineering I
Landscape construction projects involve modification of the Earth's surface. This course teaches how to design, read and engineer landform. Students will be given an introduction to grading and surveying landscape contours. They will develop knowledge of grading around buildings and roads as well as grading for drainage. Prerequisite(s): HOR 131 Corequisite(s): HOR 372L
Course Offered: Spring
Credits: Credits:3 (2,3)

HOR 410 Plant Production Technology
This course is intended to study the commercial greenhouse and nursery production of cut flowers, flowering potted plants, and nursery stock. The physiological and flowering responses of plants to light, temperature, nutrients, and gases will be addressed. Plant identification, propagation, production, scheduling, finishing, and marketing for the economic production of greenhouse and nursery crops will be studied. Prerequisite(s): HOR 250 or Department chair approval.
Course Offered: Spring
Credits: Credits:4 (3,2)

HOR 464 Capstone Prep for Urban Design
This course is designed to insure student success for the landscape development capstone project. Students are challenged to synthesize course theory and skills and begin applying them to individualized design research. Faculty directs the development of individual projects by guiding students to understand and achieve the defined course objectives, accept and integrate the critical commentary of advisory panels, and present their progress through periodic formal reviews. Prerequisite(s): Senior Level Status
Course Offered: Fall
Credits: Credits:1 (0,0,2)

HOR 465 Practicum Prep for General Horticulture
This course is designed to ensure student success for the horticulture practicum project. Students are challenged to synthesize course theory and skills and begin applying them to individualized horticulture research. Faculty directs the development of individual projects by guiding students to understand and achieve the defined course objectives, accept and integrate the critical commentary of advisory panels, and present their progress through periodic formal reviews. Prerequisite(s): Senior Level Status.
Course Offered: Fall
Credits: Credits:1 (0,0,3)

HOR 471 Landscape CAD II
This course is an advanced course in computer aided design/drafting. This course will focus on providing additional time developing skills introduced in Landscape CAD I, and introduce advanced three- dimensional aspects of AutoCad. Each student will acquire CAD experience from using the program at his or her own workstation. Each student is required to produce a comprehensive set of landscape construction plans. Prerequisite(s): HOR 371 Corequisite(s): HOR 471L
Course Offered: Fall
Credits: Credits:3 (1,0,4)

HOR 472 Site Engineering II
Landscape plans require engineered drainage design, engineered irrigation design and lighting design. The course covers advanced grading design processes, storm water management principles and techniques using the hydrologic cycle, and designing advanced lighting systems to create beautiful night landscapes. Irrigation design will cover various types of irrigation for the landscape. Prerequisite(s): HOR 372 Corequisite(s): HOR 472L
Course Offered: Fall
Credits: Credits:3 (2,3)

HOR 474 Design Capstone Project
This course is the culmination of the Landscape Development design sequence. This capstone course integrates landscape design and site engineering design philosophies and methodologies into a comprehensive studio project. The intent of the course is to help the student to synthesize skills and knowledge learned in other courses to apply in real-life situations. This multidisciplinary project incorporates landscape design and site planning analysis, site engineering, construction, energy and sustainability, cost estimating and plant selection. Faculty directs the development of individually determined projects in response to defined objectives, critical commentary of advisory panels and periodic formal reviews. Students present their final project to the full faculty at the end of the semester. Prerequisite(s): HOR 220, 371, 372 and 464 or Department approval.
Course Offered: Spring
Credits: Credits:4 (2,4)

HOR 475 Horticulture Practicum
The Horticulture Practicum represents a culmination of the four-year general horticulture curriculum. Students engage in a focused project or a broad survey of an appropriate industry setting approved and supervised by a faculty mentor and, if applicable, an industry representative. Throughout the Practicum students will be challenged to synthesize course theory and skills, and apply them in a practical manner. Participants will reflect and report on their experiences to their supervisors and peers in both oral and written formats. Note: Students enrolled in HOR 475 should have senior level status and substantial completion of the program, including HOR 465. Prerequisite(s): Department Chair approval and HOR 465
Course Offered: Spring
Credits: Credits:4 (2,4)

HEALTH PROMOTION AND WELLNESS (HPW)

HPW 100 Health and Human Rights
This course will examine the relationship between social justice, basic human rights, and health of all people. The impact of historical perspectives on health equity, health disparities and social justice will be discussed in detail. It will emphasize the interrelationships between health promotion, diversity, and equality in multiple populations to promote and protect individuals from harm. Further, it will identify health disparities and utilize critical thinking strategies for the advancement of health equity among marginalized populations. The application of human rights from multiple perspectives will be stressed. Students will apply health promotion theoretical frameworks to address different aspects of health equity and health disparities. Practical application topics will include health and children, the disabled, immigration, aged, sexual/reproductive health, and environmental health rights. The course will lean into the effectiveness of using human rights-based approaches to address current health challenges.
Credits: Credits:3 (3,0)

HPW 101 Perspectives on Health and Wellness
This course examines major contemporary public/individual health issues as an applied social science. It incorporates theoretical as well as practical applications in the health/wellness field. Emphasis is placed on social/behavioral development enhancement strategies at various life stages. HPW 101 compares the public health status of groups by variables such as socioeconomic position, environment, lifestyle behaviors, and genetics. Various health behaviors are analyzed, evaluated, and compared to standards. Preventive nutrition behaviors are addressed to aid in controlling chronic social problems such as obesity and malnutrition. Additionally, this course discusses past/current government policy and politics in structuring the public health of the United States. Note: Students cannot get credit for HST 101 and HPW 101.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

HPW 105 Medical Terminology
This course is the study of medical terminology. The focus is on prefixes, suffixes, word roots and their combining forms by an introduction to medical word building and the general structure of the body and its various body systems. Students will learn word construction, spelling, usage, comprehension, and phonetic 'sounds like' pronunciations as well as some common medical abbreviations. This course is just right for Health Studies students who are considering a career in dental hygiene, nursing, or medical technology.
Credits: Credits:3 (3,0)

HPW 115 Health & Healthy Lifestyles
This course provides students with a better understanding of healthy lifestyles, a rationale for lifestyle behaviors, and ways to move closer to optimal wellness. Along with classroom content focused on health-related topics, students will also participate in a variety of physical activities and evaluate their own fitness level. During approximately half of the class meeting time, students will be expected to participate in various exercises and activities to improve health.
Credits: Credits:3 (3,0)

HPW 200 Lifespan Health and Wellness
This course considers public health topics from a life course perspective. It will review leading causes of death and other significant health and development topics across the lifespan and explore the individual, social, and environmental factors that determine health status. Students will learn to identify health inequities across the lifespan and, using the life course approach, explore the factors that lead to them. For the health topics discussed, students will learn about health interventions, including, but not limited to, education, policy and environmental changes, for childhood, adulthood, and the aged. Prerequisite(s): HPW 101
Course Offered: Fall
Credits: Credits:3 (3,0)

HPW 225 Fitness Health & Coaching
In this course, students will learn the details of health coaching and be able to apply instruction techniques and theories directly to contemporary issues. Students will examine immediate and long-term physiological responses and adaptations to exercise. Specific detail will be paid to the role of health coaching and conflict management. Study of musculoskeletal, neuromuscular, cardiovascular, and respiratory systems will enhance the relationship between exercise and health. Core coaching values will address eating/physical activity habits to modify or control body weight. Students will explore specific aspects of training for sports performance and discuss various methodology for coaching and motivating individuals and athletes. Prerequisite(s): HPW 200
Course Offered: Fall
Credits: Credits:3 (3,0)

HPW 230 Health and Cannabis Usage
This course addresses the selection and implementation of strength, power, speed, agility, endurance, and hypertrophy training methods with an emphasis on periodization programs. Components of the course include discussion of physiological principles and strength assessment as they relate to resistance exercise training. The course introduces students to the principles of strength and conditioning and partially fulfills the strength and conditioning course requirement for students wishing to sit for the American College of Sports Medicine Exercise Physiologist and other fitness professional certifications.
Credits: Credits:3 (3,0)

HPW 245 Ethics in the Health Professions
Students will explore and discuss current issues and controversies in the health and wellness field. The focus will be on ethical issues raised as a result of social change and modern advances in biotechnology, which directly affect the quality of human life. Bioethics comprises every possible aspect of health care: medical, moral, political, religious, legal and financial. It scrutinizes outmoded laws and policies, as well as the enormous growth in available medical services. Bioethics also takes into account our values and views of ourselves as members of a humane society. A multiple-perspective approach of each topic will be emphasized, including interpreting and evaluating evidence supporting or refuting perspectives. Topics will include discussion of key sociocultural issues including: diversity, equity, and inclusion for underserved populations. Note: Students cannot get credit for both HPW 245 and BIO 240(W). Prerequisite(s): HPW 101 with a grade of C or higher or permission of the department.
Credits: Credits:3 (3,0)

HPW 250 Sociocultural Analysis of Sport & Exercise
This course provides undergraduates with additional lower level technical elective courses for HPW & non-major students. This course is submitted as Humanities Gen Ed Liberal Arts elective as it is focused on recognizing and critiquing sociocultural concepts at the core of the human experience: studying phenomena, language, beliefs, and culture; their definition, interpretation, and history; and, their reflection of human values, beliefs, and traditions. This is a critical assessment course and challenges typical perspectives of core topics. This course is similar to a variety of humanity courses across disciplines that analyze and critique the underlying assumptions, methods of study, practices, theories, and disputes

appropriate to the discipline. Prerequisite(s): Introductory Sociology Course and Sophomore Status
Credits: Credits:3 (3,0)

HPW 300 Evaluation of Health Promotion
This course involves the investigation of the social, epidemiological, behavioral, educational, and administrative factors related to planning health programs and the procedures and methods for health program evaluation. It introduces students to concepts required for development of successful health/wellness promotion programs for a variety of patient/client populations. Concepts such as the impact of socioeconomic status on health/wellness, cultural diversity as related to health/wellness, methods of creating change, and teaching strategies and theory, including teaching the adult learner, are covered. Students discuss current literature related to these topics and develop a promotion and wellness intervention project based on an area of their choice. Note: Students cannot get credit for HPW 300 and 300W; HPW 300W can be used to fulfill the writing intensive requirement. Prerequisite(s): HPW 200
Course Offered: Spring
Credits: Credits:3 (3,0)

HPW 310 Sport & Exercise Psychology
This course examines psychological theories and research related to sport and exercise behavior, with an emphasis on the athlete and sport contexts. This course examines psychological constructs that influence athletic participation and performance. The course is designed to introduce students to the field of sport and exercise psychology by providing an overview and practical application of many of the major topics in this discipline. This course is equivalent to PSY 309 Sport Psychology. You cannot get credit for both HPW 310 and PSY 309. Prerequisite(s): Any 200-level or above Psychology course or Permission of the Department Chairperson
Credits: Credits:3 (3,0)

HPW 320 Strength and Conditioning
This course addresses the selection and implementation of strength, power, speed, agility, endurance, and hypertrophy training methods with an emphasis on periodization programs. Components of the course include discussion of physiological principles and strength assessment as they relate to resistance exercise training. The course introduces students to the principles of strength and conditioning and partially fulfills the strength and conditioning course requirement for students wishing to sit for the American College of Sports Medicine Exercise Physiologist and other fitness professional certifications. Prerequisites: BIO 166 or BIO 170 with a grade of C- or higher
Credits: Credits:3 (3,0)

HPW 325 Mental Health Wellness
This course will explore mental illness from psychological, neurobiological, historical and cultural perspectives. Conditions to be examined include autism, schizophrenia, depression, post-traumatic stress disorder, multiple personality disorder, eating disorders, attention deficit disorder, and Tourette syndrome. Students will consider the impact of racism, class, and gender on the construction of, explanations for, and interventions developed in mental illnesses. All syndromes will be viewed in the context of an increasing public health concern with mental health and mental illness. Attention will be paid to the neurobiological and psychiatric mechanisms associated with these disorders. Prerequisite(s): HPW 200 and Junior level status
Course Offered: Spring
Credits: Credits:3 (3,0)

HPW 330 Concepts in Public Health
This course is designed to introduce the basic tenets, applications, and foci of public health, including integrating public health with other health professions. It will provide a history of public health with an emphasis on the practical application of public health theories and principles in public health program delivery. It will integrate various interactive learning strategies to both individual and community health outcomes. Prerequisite(s): HPW 200 or GRO 100 and Junior level status
Course Offered: Spring
Credits: Credits:3 (3,0)

HPW 400 Community Health
In this course students will learn the benefits of establishing health promotion programs in public and community settings. Students are provided the knowledge and tools required to assess community needs and the steps involved to plan and implement wellness/ fitness programs. Students integrate the various theories of behavior change in their planning assessments for the rural and suburban supporting communities. As part of the course, students will be assigned community service at select local sites and be required to present the experience to the class. Prerequisite(s): HPW 300
Course Offered: Fall
Credits: Credits:3 (3,0)

HPW 405 Exercise & Movement Science
This course provides a survey of scientific principles, methodologies, and research as applied to exercise and physical fitness. Emphasis is placed on physiological responses and adaptations to exercise. Topics include basic elements of kinesiology, biomechanics, motor learning, and the physical fitness industry. Laboratory sessions will identify major muscle groups and examine physiological response to exercise. Specific sport exercise requirements/demands will be examined for training and during the athletic event. The course HPW 405L is a part of the grade for this course. Prerequisite(s): HPW 225 with a grade of C- or higher and Junior level status
Corequisite: HPW 405L
Course Offered: Spring
Credits: Credits:4 (3,2)

HPW 410 Seminar in Health Promotion
This course focuses on major issues in Health & Wellness and the role of the health promotion specialist. Students are provided a wide range of exposure to current controversies in Health and Wellness to aid in developing scientific thought, critical thinking and decision-making skills in order to provide safe, competent and compassionate care to individuals in multiple healthcare settings. Through the presentation of health related topics, this seminar provides a culminating experience for the Health Promotion & Wellness program. Prerequisite(s): HPW 325
Course Offered: Fall
Credits: Credits:3 (3,0)

HPW 415 Exercise Testing and Programming
This course will teach students how to design and modify exercise programs for the apparently healthy adults and special populations living with various forms of acute and chronic diseases and health conditions. Laboratory and field tests will be utilized for assessing physical fitness components and applying principles of exercise programming for health, fitness, and sport. The course includes fundamental guidelines for lifestyle modifications and adaptations of exercise programming for special populations as well. Fundamental principles of physical fitness assessment are adapted for a focus on health-related components of physical fitness, to include body composition, cardiorespiratory fitness, muscular strength and endurance and flexibility, balance, and functional movement screening. Prerequisite(s): HPW 325 Corequisite(s): HPW 415L
Credits: Credits:4 (3,2)

HPW 420 Addictive Behaviors
This course expands on the counseling techniques for coaching healthy individuals learned in HPW 225. It combines mental health counseling models and techniques (from HPW 325) and applies them to various stages of addictive behaviors. It is an advancement of of intervention evidence-based counseling practices used to deal with the leading types of addiction in the United States. Prerequisite(s): HPW 325
Course Offered: Fall
Credits: Credits:3 (3,0)

HPW 425 Sport & Exercise Physiology
This course provides a theoretical basis for understanding the body's physiological responses to exercise. Exercise and athletic physiology is an evaluation of the acute responses and chronic adaptations of the body to the stresses of exercise. Students will investigate how the support systems of the body function and how energy metabolism ensures that sufficient energy is provided to exercise. Students will apply exercise physiology principles to coaching, teaching, and other physical training practices. Students will observe measurable physiological responses to exercise through required laboratory exercises. Prerequisite(s): NTR 365 and Junior level status
Course Offered: Fall
Credits: Credits:3 (2,2)

HPW 430 Research Methods in Health Science
This course provides a thorough and comprehensive overview of the scientific research process utilized in social and health sciences. It provides training in the process of publishing peer reviewed research as well as

practical experience on the complete development of a research project. Topics to be covered include the underlying theory of research, data management/analysis, and presentation to small and large media groups. Note: Students cannot get credit for HPW 430 and 430W; HPW 430W can be used to fulfill the writing intensive requirement. Prerequisite(s): HPW 300 and Junior level status
Course Offered: Spring
Credits: Credits:3 (3,0)

HPW 435 Health Care Administration
This course is designed to provide students with an understanding of the administration, organization and delivery of healthcare in the United States. It gives an overview of the business of health using technology, the economy, society and politics as driving forces of change. Students study the organizational structures, types of governance, and management issues of the American healthcare system. Further, current healthcare reform issues will be discussed. Prerequisite(s): HPW 300 and Junior level status
Course Offered: Spring
Credits: Credits:3 (3,0)

HPW 440 Holistic & Integrative Health
This course is an introduction to the concepts, theoretical basis, evidence-based analysis, challenges, and issues in integrative health and complementary and alternative medical practices. Integrative, alternative, and complementary medicine covers a broad range of health philosophies, approaches, and therapies involving the use of holistic or culturally-specific health services and practices in the treatment of illness and disease and embraces an expanded concept of health and illness. Prerequisite(s): HPW 325
Course Offered: Spring
Credits: Credits:3 (3,0)

HPW 450 Health & Wellness Internship
The Health Promotion and Wellness internship course is a professional development orientated course that builds skills and abilities related to job-seeking, career, and field experiences. The focus is on the development of professional skills including portfolios, resumes, interviewing skills, and relevant certifications. The internship is individualized based on the career interests of the student and the specific needs of the organization. Internship proposals must be presented and approved by the department prior to registration for the course. Prerequisite(s): HPW 410 or GRO 420, Junior level status and Approval of department chair.
Course Offered: Spring
Credits: Credits:4 (1,0,9)

HPW 470 Healthy America
This course provides students with current health information in areas such as psychosocial health, substance abuse, injuries, death, sexuality, sexually transmitted diseases, fitness, nutrition, stress management and environmental issues. Environmental health is examined from a health practitioner perspective, with a focus on urban versus rural American living situations. This course also investigates solutions to American health inequities, with strategies for improvement at the local, state, and federal levels. NOTE: Students cannot earn credit for HPW 470 and HPW 470*D HPW 470*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): NTR 305 and Junior level status
Course Offered: Spring
Credits: Credits:3 (3,0)

HEALTH STUDIES (HST)

HST 101 Current Issues in Health
This introductory, multidisciplinary course will provide the student with a broad background of information on current issues in health care. This course is designed to facilitate and enhance the professional growth of future health care providers. Topics will include common and emerging health problems, an examination of the health care delivery system, effective wellness behaviors and common ethical issues occurring in health care today.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0,0)

HST 103 Currents Topics in Gerontology
This three credit elective course will provide an overview on a number of topics related to aging in today's society. Topics will include current theories on aging, the physiology of aging, psycho-social aspects of aging, health issues, end of life decision making, sexuality and spirituality in aging and social policies affecting the elderly in America today. Essential concepts related to the senior citizen will be examined from multiple view points, including that of the client, the family, the health care provider and the health care system.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

HST 105 Medical Terminology
This course is the study of medical terminology. The focus is on prefixes, suffixes, word roots and their combining forms by an introduction to medical word building and the general structure of the body and its various body systems. Students will learn word construction, spelling, usage, comprehension, and phonetic 'sounds like' pronunciations as well as some common medical abbreviations. This course is just right for Health Studies students who are considering a career in dental hygiene, nursing, or medical technology.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

HUMANITIES (HUM)

HUM 317 Special Topics in the Humanities
This course enables students to explore intensely a major theme or period in the humanities. The subject for a particular semester will be announced prior to registration. Topics may include Historical and Contemporary Perspectives on China, Propaganda in Marketing and Advertising, among others. Short papers involving secondary sources will be required. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

HUM 332 Intercultural Communication
This course is designed to develop an understanding of how specific interpersonal techniques can facilitate effective intercultural communication encounters. Students will be exposed to the ways in which cultural differences affect intercultural communications. Obstacles to effective intercultural communication will be examined and techniques to overcome these will be explored and practiced. NOTE: Students cannot earn credit for HUM 332 and HUM 332*D. HUM 332*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Credits: Credits:3 (3,0)

INDUSTRIAL TECHNOLOGY (IND)

IND 201 Industrial Technology Basics
This course introduces the role of facility management in supporting organizational success and business operations. Students will learn to assess building performance, manage operational budgets, and coordinate with stakeholders, including owners, contractors, and regulatory agencies. The course examines the evolution of the profession alongside core building systems (HVAC, electrical, plumbing, building envelope) and explores how facilities are financed, maintained, and optimized for safety, efficiency, and sustainability. Through real-world case studies and practical exercises, students develop professional communication skills and technical knowledge needed to engage confidently with trades, decision makers, and building occupants across various facility types.
Credits: Credits:3 (3,0)

IND 306 Project and Contract Management
This course covers the processes encountered in choosing, planning, controlling and negotiating of projects and contracts in technologically-based firms. Topics include projects and contracts: feasibility; risk analysis; selection; portfolio optimization; cost estimation and controls; capital budgeting; performance relating to negotiation, adjustments, and benchmark standards; and awareness of an appreciation for ethical practices. Note: Students completing this course cannot receive credit for BUS 306. Prerequisite(s): BUS 109
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

IND 308 Occupational Safety
This course introduces the fundamentals of occupational safety and examines potential accidents, which may occur in the modern work environment that employs complex materials, processes and technologies. We will review the history and safety legislation of the regulatory agency OSHA. Acquiring and analyzing hazard information, organizing and setting

up occupational safety programs, accident causes, and their control and accident record keeping will be addressed.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

IND 309 Security and Fire Protection Systems
Assessing a facility's need for and recommending as well as managing the design, procurement, installation, and operation of access intrusion detection, closed circuit television (CCTV), security lighting, fire alarms, and fire suppression systems; establishing policies, procedures, and practices for systems operations and maintenance, monitoring and evaluating systems performances; researching and assessing technical developments in the security and fire protection fields.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

IND 310 Industrial Hygiene
This course introduces students to the fundamentals of industrial hygiene as well as to a recognition of health hazards in the facility environment. This course includes analysis of solvents, particulates, industrial dermatoses, industrial noises, ionizing and noniodizing radiation, temperature extremes, biological hazards, and indoor air quality issues. A study of methods with which to evaluate exposures to hazardous substances; a detailed analysis of control programs; and an examination of environmental protection acts and amendments are also included.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

IND 315 Facilities Planning
This course is designed to introduce a comprehensive overview of the concepts and techniques to generate facility plans. The course includes the determination of the requirements for people, equipment, space, and material in the facility along with the evaluation, selection, preparation, presentation, implementation and maintenance of the facility plans. An overview of the components of a building structure, its envelope and related items are also discussed. Prerequisite(s): MET 101T or BUS 109
Course Offered: Fall
Credits: Credits:3 (3,0)

IND 316 Customer Relations and Quality
This course covers the basics of customer relations and quality in industry. The course includes discussion of quality management principles and standards as well as feedback techniques to measure and assure customer satisfaction. The American Customer Satisfaction Index, J.D. Power and Associates Reports, Malcolm Baldrige National Quality Award, and International Organization for Standardization (ISO) Automotive Quality System QS-9000 registration criteria will also be discussed. Note: Students completing this course cannot receive credit BUS 316. Prerequisite(s): BUS 300
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

IND 317 Automotive Financing and Leasing
This course is designed to familiarize the student with the basic economic problems and principles that exist when a vehicle or other equipment is purchased or leased. Problems are centered around the cost of capital, capital budgeting and investment analysis. Also discussed are repayment schedules including amortized loans, refinancing and variable rate loans. Prerequisite(s): MTH 110
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

IND 320 Fleet Management
This course is designed to provide students with a practical discussion and examination of the fleet management function, as well as how it relates to an organization. Included in the course are automotive specific computer applications such as service establishment management software. Also, the course will include discussions on business plans, fleet utilization and replacement, human resources, parts management, safety requirements and data services. This course will consist of presentations, case studies, and a review of management literature.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

IND 321 MEP Systems Management
This course develops technical competency in mechanical, electrical, and plumbing (MEP) systems management for facility professionals. Students learn to read and interpret electrical schematics, plumbing risers, and HVAC diagrams while evaluating system capacity and code compliance requirements. The course emphasizes practical application of the National Electrical Code (NEC) and International Plumbing Code (IPC) standards, training students to assess system performance and communicate technical findings effectively to both trades personnel and senior leadership. Through hands-on assignments using facility data, students develop integrated MEP analysis skills applicable across various facility types and organizational settings. Prerequisite(s): IND 201 or PHY 136
Credits: Credits:3 (3,0)

IND 400 Quality Techniques
This covers quality tools and techniques used in problem solving and decision making. Topics include: Pareto charts; cause and effects diagram; check sheets; histograms; scatter diagrams; quality function deployment; statistical process control; continuous improvement; Goldratt's theory of constraints; benchmarking; just-in time manufacturing; and implementing total quality. A written assignment will be required that integrates quality topics with problem solving and decision making tools and techniques. Note: Students completing this course may not receive credit for BUS 400
Prerequisite(s): BUS 240 and MTH 110
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

IND 402 Facility Maintenance Management
This objective of this course is to present a comprehensive overview of the management, administration and control of a facilities maintenance department, including an overview of business and financial issues work order systems; prioritizing, planning and scheduling of maintenance, construction, custodial and grounds keeping work; the contract cycle and components. Prerequisite(s): IND 315 or BUS 109 and Junior Status
Course Offered: Spring
Credits: Credits:3 (3,0)

IND 405 HVAC Systems
This course covers design aspects of heating, ventilation and air conditioning systems, hydronic systems for commercial and residential applications. Design and selection of heating and cooling system components, boilers, air handling units, refrigeration systems, hydronic system components, terminal equipment, fans, pumps, compressed air properties and indoor air quality are also covered. Students are required to prepare term projects on heating and cooling load calculations for commercial and residential buildings. Prerequisite(s): MET 212 and MET 314
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

IND 406 Energy Management
This course covers a comprehensive study of various forms of energy generated from fossil fuels, alternative and renewable energy sources and their management. This course also covers life cycle cost of each type of energy system, energy conservation programs, smart building, load management, miscellaneous methods to increase the energy efficiency of a building, utility rate structures, reduction of energy demand and rebates. In addition, energy conservation will be covered with respect to its effect on indoor air quality and other environmental issues. Note: Students cannot get credit for IND 406 and IND 406W; IND 406W can be used to fulfill the writing intensive requirement. Prerequisite(s): MET 212, MET 314 and Senior Level Status
Course Offered: Fall
Credits: Credits:3 (3,0)

IND 408 Automotive Business Management
This is a theory course developed to give the student an understanding of employment practices and opportunities in the automotive industry. Topics include: management principles and structures, tasks and duties of a service manager including interview techniques, performance evaluations, and financial operations of a service facility. The course will provide the student with an understanding of owner communications, shop capacity management, leadership effectiveness, organizational behavior, and promotional strategies. Course will include related problem solving activities, and final project. Prerequisite(s): Junior level status and BUS 300
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

IND 410 Senior Project
Independent study of an Industrial Technology-related area of interest to both the student and a faculty member who shall act as Project Advisor.

The project selected will utilize skills and knowledge acquired in previous Industrial Technology and related courses. Note: Students completing this course may not receive credit for BUS 410. Prerequisite(s): BUS 409 or IND 409
Course Offered: Fall, Spring, Summer
Credits: Credits:1 or 1 (1,6)

IND 411 Capstone Project for Facility Management
This capstone project is the culminating experience in the Facility Management Technology program, which is offered as an independent investigation of a technical problem by the student under the supervision of a faculty member. The selected project reflects a student's integrated understanding of overall facility management practices and techniques, such as facilities planning, fire safety, security systems, building automation and control systems, occupational safety, real estate management, strategic planning, project management, conventional and renewable energy applications, HVAC design and control systems, human factor engineering and facility maintenance management. Prerequisite(s): EGL 101 with a grade of C or higher, Senior Status, and Approval of Department Chair
Credits: Credits:3 (3,0)

IND 412 Computer Tools in Facility Management
This course builds practical fluency with digital tools used to plan, operate, and improve facility operations. Students will engage with facility data systems, including CMMS, CAFM, BIM, BMS/BAS data, and IOT devices, to integrate, analyze, and visualize data for decision-making. Key topics include asset and space inventories, preventive maintenance analysis, life cycle cost estimation, work order and service analytics, energy dashboards, and data governance. Through applied projects, students develop repeatable digital workflows to improve accuracy, speed, and transparency in facilities planning and operations. Prerequisite(s): IND 201 or IND 315
Credits: Credits:3 (3,0)

ITALIAN (ITA)

ITA 121 Italian I (Elementary)
A beginning course in Italian emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ITA 122 Italian II (Elementary)
A continuation of Italian 121 emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. Prerequisite(s): ITA 121
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

ITA 125 Italian for Business
This course will provide the development of oral proficiency used in daily communication within the business world, preparing the students both in technical vocabulary and situational usage. An introduction to specialized vocabulary in business and economics, as well as practice in writing business correspondence, will be included. Readings in management, marketing, advertising, etc. will be covered. Prerequisite(s): 2 or 3 years of High School Italian or ITA 121
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ITA 223 Italian III (Intermediate)
A continuation of ITA 122 for students who have had 3 or 4 years of high school Italian. This intermediate course further emphasizes the development of the four language skills: listening, speaking, reading, and writing with stress on communicative competence and cultural awareness. A literary and cultural reader will be introduced. Prerequisite(s): ITA 122
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ITA 224 Italian IV (Intermediate)
For those students who have taken ITA 223 or four or more years of high school Italian. This course emphasizes structural review, intensified practice in oral expression with increased emphasis on reading and writing skills. Continued attention will be given to contemporary Italian culture. Selections from Italian authors will be read. Prerequisite(s): ITA 223
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

ITA 301 Italian V (Advanced)
An advanced conversation/composition course with intensive practice in oral and written Italian. Prepared discussions and writing assignments on selected cultural, historical and literary topics. Prerequisite(s): ITA 224
Course Offered: Fall
Credits: Credits:3 (3,0)

ITA 302 Italian VI (Advanced)
A continuation of Italian V Advance with intensive practice in oral and written Italian. Prepared discussions and writing assignments on selected cultural, historical and literary topics. Prerequisite(s): ITA 301
Course Offered: Summer
Credits: Credits:3 (3,0)

INTERACTION DESIGN (IXD)

IXD 101 Design Thinking
Creativity does not need to be a mystery. The development of creative skills can help students in all disciplines develop the confidence to approach problems imaginatively. Building on the creative process that designers use to generate and visualize unique, human-centered solutions, this course will teach students empathy, definition, ideation, prototyping, and testing. Each interdisciplinary team project's aesthetic result will be a well-crafted, elegantly designed solution to a complex problem. The problems presented will dictate the tools, techniques, and processes needed to create the final artifacts.
Credits: Credits:3 (3,0)

IXD 101H Design Thinking
Creativity does not need to be a mystery. The development of creative skills can help students in all disciplines develop the confidence to approach problems imaginatively. Building on the creative process that designers use to generate and visualize unique, human-centered solutions, this course will teach students empathy, definition, ideation, prototyping, and testing. Each interdisciplinary team project's aesthetic result will be a well-crafted, elegantly designed solution to a complex problem. The problems presented will dictate the tools, techniques, and processes needed to create the final artifacts. NOTE: This course is an Honors Designated Course and can only be taken by students enrolled in the Honors Program. In addition, students cannot earn credit for IXD 101 and IXD 101H.
Credits: Credits:3 (3,0)

IXD 102 Design for Game Play
Game design and play is a form of artistic expression that permeates 21st-century society. The visual impact of games has changed how we play, think, and interact with the world. In this class, students will experience the creative process inherent in the creativity of visual game design concepts. Class assignments will develop creative thinking skills, visual literacy, and an understanding of gaming and society. Students will learn the theoretical and artistic principles that make game play fun, addictive, and engaging. Social gaming, 8bit - 4K consoles, immersive games, digital and physical games will be covered. Projects will favor the cultivation of awareness and reasoning over technology, limiting the use of gaming tools to the imagination of game design and the gamers who play them. No programming knowledge or formal computing skills are expected or required.
Credits: Credits:3 (3,0)

IXD 210 Typography for Interaction
This course will allow students to build technical and practical skills for understanding and effectively utilizing typography in a range of special applications including digital, environmental and immersive application. The course investigates typographic terminology, structures, and methods for creative successful interactive experiences. Students will develop a unified method for orchestrating typography into their visual vocabulary to create cohesive solutions that successfully communicate. Experimentation will be encouraged. Prerequisite(s): VIS 116, VIS 122
Course Offered: Fall
Credits: Credits:3 (2,2)

IXD 212 Interaction Design I - Foundation
This course will introduce the basics of Interaction Design and the concepts and techniques necessary to develop and implement immersive, innovative experiences that inform and delight. Students will learn the rigorous process for the design of interactive solutions through research, planning,

testing and iteration. Assignments will require the conception, planning and development of systems for various applications using lo-fidelity sketching techniques. Social Media, Usability and Usability testing, and Information Architecture will be covered. Class assignments will favor process and meaning over technology, limiting the use of digital tools to research and information gathering. Prerequisite(s): VIS 116, VIS 122
Course Offered: Spring
Credits: Credits:3 (1,4)

IXD 310 Interaction Design II-User Interaction
User Interaction will expand on the concepts and tools introduced in IXD-212 User Interaction I – Foundation with an emphasis on the concepts and principles of User Interaction design: effectiveness, efficiency and satisfaction. Usability, heuristics, user and task analysis, information architecture and graphical user interface design will be added to the student's design vocabulary. The formal use of the computer and digital tools will be introduced and emphasized. Prerequisite(s): IXD 212
Course Offered: Fall
Credits: Credits:3 (1,4)

IXD 312 Research Strategies
In this course students will survey how design research is planned and executed. Students will conduct literature reviews regarding best practices in qualitative and quantitative research. Students will also cover theoretical principles in user behavior, attitude, emotion, empathy online and in-person analysis. Students will gain skills in task analysis, empirical studies, interviews, focus groups, surveys, usability testing, and other tools and methodologies that facilitate research and discovery. This course will survey the research process, e.g., starting with a research question and conclude with a research strategy for future implementation. Students will be expected to utilize storytelling techniques to propose design solutions, establish personas and develop presentation skills, that support a design strategy. Prerequisite(s): PSY 101
Course Offered: Fall
Credits: Credits:3 (3,0)

IXD 320 Interaction Design III – User Experience
This advanced interaction design course builds on skills covered in previous IXD courses and emphasizes user-centered design and research methods and practices used in experience modeling. Students will work in teams to study users in various settings and contexts utilizing interpretive methods of analysis to discover and create solutions for problems that emerge. Projects will emphasize research and usability testing of the needs, wants, and limitations of the end users of a product, service or process at each stage of the design process ensuring effective, efficient and satisfactory experiences. Prerequisite(s): IXD 310
Course Offered: Spring
Credits: Credits:3 (1,4)

IXD 322 Prototyping Tools
This course will provide students with an advanced and intensive exploration of prototyping tools. Various methods of prototyping will be used to understand, analyze, explore, and evaluate systems through the development process. Students will employ these methods to translate a concept into sketches through multiple iterations. Prototypes will be constructed using paper, pen, post-it, scissors, and non-graphical hand drawn and digital wireframes. Students will also learn to develop these concepts using various digital prototyping tools to create hi-fidelity prototypes that demonstrate an application in digital form. Prerequisite(s): IXD 310, BCS 240
Course Offered: Spring
Credits: Credits:3 (1,4)

IXD 330 Design for Social Change
In this course students will apply the skills they have learned in the IXD program to work collaboratively in identifying a social need and solving it through user-centered design. The class will work with a real world client to identify a project that addresses a social need, engages people and inspires positive change. Students will be expected to conduct design research including observational studies, customer interviews, usability testing, and other forms of research in establishing and addressing the social need. Prerequisite(s): SOC 122 and IXD 310 and IXD 312
Course Offered: Spring
Credits: Credits:3 (2,2)

IXD 410 Interaction Design IV – Advanced Interaction Design
In this course students will work collaboratively to execute projects that include advanced application of the skills developed during the previous semesters. Students will be expected to utilize the applicable conceptual, design, prototyping, storytelling and research skills in combination with typographic and visual design to complete advanced interaction design applications. Class assignments will focus on creating finished, portfolio-ready projects using the Interaction Design Association's definitions of interaction design categories including: Connecting: Facilitating communication between people and communities. Disrupting: Re-imagining completely an existing product or service by creating new behaviors, usages or markets. Empowering: Helping people to do things they otherwise couldn't do. Engaging: Capturing attention, creating delight and delivering meaning. Expressing: Enabling self-expression and/or creativity. Optimizing: Making daily activities more efficient. Prerequisite(s): IXD 320, IXD 322
Course Offered: Fall
Credits: Credits:3 (1,4)

IXD 412 Special Topics Studio
This course offers instruction in special content areas within the field of interaction design. Areas of exploration may include topics such as: Content Strategy and Research, Advanced User Experience, Advanced Technologies, Interaction Design in Advertising, Design Thinking, Psychology of Design, Systems Design and the Cultural Significance of Social Media. Depending upon the topic and the instructor(s) discipline the class may be divided into 2 -3 modules with students focusing on a different topic or aspect of a topic in each module. The class will encourage total immersion in the subject(s) presented. Students will rely on the skills developed in past classes to complete rigorous and intensive research and prototyping in the creation of design artifacts. Prerequisite(s): Senior Status
Course Offered: Fall
Credits: Credits:3 (2,2)

IXD 414 Design and Play Mechanics
Design and Play will explore the intersection of game theory and game mechanics to design interfaces, experiences and objects that encourage playful interactions and behavioral change in traditionally non-game contexts such as business and education. Concepts such as Gamification for education and business and identification of interaction models will be investigated. Interaction design as it relates to increasing user engagement by adding "fun" components will be explored in-depth. Prerequisite(s): IXD 320, IXD 322
Course Offered: Spring
Credits: Credits:3 (2,2)

MECHANICAL ENGINEERING TECHNOLOGY (MET)

MET 101 Intro to Mech Eng Technology
This is an introductory course in a computer programming language. Programs are specifically written to be used in the areas of statics, strength of materials, machine design, heat transfer, and fluid mechanics. Applications of the theoretical concepts are covered in the required laboratory. Corequisite(s): MET 101L
Credits: Credits:2 (1,2)

MET 104 Computer Aided Drafting and Design
This course introduces computer aided drafting and design (CADD) in 2D drafting and 3D solid modeling. Students will learn traditional drafting techniques, such as orthographic projection, dimensioning, and tolerancing, and apply their drafting skill though 2D CAD software. Students will also learn 3D solid modeling based on parametric constraints, dimensions and features such as extrude, revolve, sweep, loft, hole, fillet and shell. In addition, the course teaches students how to create assemblies and 2D engineering drawings from the existing 3D solids. Laboratory exercises will be assigned to the students for hands-on experience with the related topics. This course is equivalent to the combination of GPH103, GPH104, and MET211. Corequisite(s): MET 104L
Credits: Credits:3 (2,2)

MET 105L Technical Drawing and CAD Lab
This is a laboratory course designed to provide students with hands-on experience in technical drawing and computer aided design (CAD). Students will apply traditional drafting techniques, such as ortho-graphic projection, dimensioning, and tolerancing, though 2D CAD software. Note: Student who have received credits for MET104 cannot receive credit for this course.

Course Offered: Fall, Spring
Credits: Credits:1 (0,2)

MET 117 Manufacturing Process
The main purpose of this course is to introduce the mechanical engineering technology student to the principles and operation of mechanical equipment such as lathes, drill press, milling machines and measuring requirements and measuring instruments. Several manufacturing processes such as welding, powder metallurgy, sheet metal forming, extrusion, etc. are also covered. Individual laboratory projects will be assigned to each student to reinforce the topics covered in the theory. NOTE: Students completing this course may not receive credit for AET 218T. Corequisite(s): MET 117L
Course Offered: Fall, Spring
Credits: Credits:2 (1,3)

MET 127 Advanced Manufacturing Processes
This course is a continuation of MET 117. Topics emphasize the theory and operation of manual and numerically controlled milling machines and machining centers. Additional topics covered are the gear shaper, indexing head, point-to-point drilling and milling, and three axis measurement. Laboratory projects will be assigned to reinforce the topics covered in theory. Prerequisite(s): MET 117 and MET 105L Corequisite(s): MET 127L
Course Offered: Fall, Spring
Credits: Credits:2 (1,3)

MET 150 Solid Modeling
This course introduces advanced topics in computer graphics. Students will learn 3D solid modeling based on parametric constraints, dimensions, and features such as extrude, revolve, sweep, loft, hole, fillet, and shell. The course also teaches students how to create assemblies and 2D technical drawings from 3D models. In the required laboratory course MET 150L, exercises will be assigned to the students for hands-on experience with related topics. Note: Student who have received credits for MET 104 cannot receive credit for this course. Prerequisite(s): MET 105L or ARC 121 Corequisite(s): MET 150L
Course Offered: Fall, Spring
Credits: Credits:2 (1,2)

MET 201 Statics
This is a basic course in statics. The main objective of this course is to provide student with a basic understanding of the principles of statics. Topics such as resultant of a force, equilibrium of forces, moments, couples, analysis of simple trusses, centroids, center of gravity, moments of inertia and friction are covered in this course. Applications of the theoretical concepts are covered in the required laboratory. Prerequisite(s): PHY 135 or PHY 143 with a grade of C or higher Corequisite(s): MET 201L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 202 Mechatronic Systems
This course introduces mechatronic systems: the confluence of mechanical, electrical, and software/programming. Mechanical systems will be controlled by use of a microcontroller such as an Arduino. Emphasis is placed on both control over actuators (including motors, linkages, and gear trains) as well as reading inputs from sensors (both analog and digital). Students will write their own programs for both autonomous control and human-in-the-loop systems, and Pulse-Width-Modulation (PWM) outputs will be covered. Theory will be enhanced by laboratory projects. Prerequisite(s): MET 101 Corequisite(s): MET 202L
Credits: Credits:3 (2,2)

MET 205 Material Science
This is a theory and laboratory course designed to give students a basic understanding of crystal structures, effects of cold work and annealing on metal structures and properties, phase diagrams, heat treatment of steel, corrosion of materials, failure analysis of ferrous and non-ferrous alloys, ceramics, plastics and composite materials. Laboratory experiments are associated with the topics covered in the theory. Prerequisite(s): MET 117 or MTH 129 Corequisite(s): MET 205L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 205W Material Science (Writing Intensive)
This is a theory and laboratory course designed to give students a basic understanding of crystal structures, effects of cold work and annealing on metal structures and properties, phase diagrams, heat treatment of steel, corrosion of materials, failure analysis of ferrous and non- ferrous alloys, ceramics, plastics and composite materials. Laboratory experiments are associated with the topics covered in the theory. Students will write technical reports throughout the semester as well as final presentations to help them communicate effectively in specific writing related to their fields. This is a writing-intensive course. Prerequisite(s): EGL 101 with a grade of C or higher Corequisite(s): MET 205L Note: Students cannot get credit for MET 205 and 205W; MET 205W can be used to fulfill the writing intensive requirement, which is offered at the discretion of the Mechanical Engineering Technology Department.
Credits: Credits:3 (2,0)

MET 206 Strength of Materials
This is a basic course in strength of materials. The main objective of this course is to introduce the concepts of normal and shear stress and the corresponding strains under normal, torsional and bending loadings. This course also covers shear and moment diagrams, deformations, modes of failure, and thermal and combined stresses. Laboratory demonstration of experiments and testing equipment are emphasized. Prerequisite(s): MET 101T and (MET 201 or CON 106) with a grade of C or higher Corequisite(s): MET 206L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 211 Advanced Computer Graphics
This is a laboratory course which introduces advanced topics in computer graphics including advanced dimensioning and tolerancing, 3-D wire frame, surface of revolution, solids, in computer graphics. Laboratory exercises will be assigned to the students for hands-on experience with the related topics. Prerequisite(s): GPH 103 and GPH 104
Credits: Credits:1 (0,2)

MET 212 Applied Fluid Mechanics
The objective of this course is to represent the basic principles of fluid mechanics and the application of those principles to practical, applied problems. Primary emphasis is on the topics of fluid statics, flow of fluids in piping systems, flow measurement, and forces developed by fluids in motion. The course is directed to anyone in a technical field where the ability to apply the principles of fluid mechanics is desirable. Prerequisite(s): MTH 130, PHY 136
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MET 215 Special Topics in Engineering
This course will cover various applications of basic principles of statics, strength of materials, electrical principles, introduction to basic principles of electromechanical control systems and introduction to Robotics and automation systems. Students will work on independent projects related to various engineering concepts by utilizing various CAD software. This course can be used as a Technical Elective for Mechanical Engineering Technology and Manufacturing Engineering Technology B.S. Degree programs.
Credits: Credits:3 (3,0)

MET 230 Electrical Principles
This hands-on and theory course introduces electrical principles to Mechanical and Manufacturing Engineering Technology and Facility Management Technology students. Emphasis will be on power systems that utilize alternating current. Course topics include resistive and R-L-C series and parallel circuits, instrumentation, single and three-phase circuits that contain motors, transformers, starters and low voltage controls, and an overview of electronic applications to mechanical systems. Electrical logic (ladder) diagrams will be stressed throughout the semester. Laboratory assignments will reinforce the topics covered by theory through relevant experiments performed by the student and will include the writing of laboratory reports. Prerequisite(s): MTH 130 or MTH 150 and PHY 136 or PHY 144 Corequisite(s): MET 230L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 252 Quality Control (Metrology)
This course covers different aspects of dimensional metrology principles, calibrations, and practices. Common measurement tools and methods used in the industry will be introduced. Topics covered include: Gage Blocks, Fixed Gages, Height Gages, Plug Gages, Dial Gages, Angle Measurements, Pneumatic Gages, Surface Metrology, Optical Metrology, Load Cells Calibration, Introduction to GD&T, and Gage R&R Analysis. Laboratory exercises covered include: Gage Blocks Stacking and Calibration, Dial Gages & Plug Gages in Inspection, Micrometer Calibration, Transducers

& Load Cell Calibration, Surface Roughness measurements and analysis, Angle measurements using Sign Bar, Gear Inspection, Air Gage Inspection, Inspection of Flatness, Straightness, Perpendicularity. Prerequisite(s): MET 150T, MET 127 Corequisite(s): MET 252L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 270 Special Topics in Engineering Technology
This course provides an in-depth exploration of selected special topics in engineering technology, with a focus on current trends, emerging technologies, and advanced applications in areas such as manufacturing, mechanical systems, and facility management. Topics will vary each semester based on technological developments and faculty expertise. Through lectures, case studies, and hands-on projects, students will investigate real-world engineering challenges and apply problem-solving skills using modern tools and methods.
Credits: Credits:3 (3,0)

MET 301 Three-Dimensional Printing Applications
This course explores 3D printing technology and its application in product development, prototyping, and manufacturing. 3D printing technologies, including Fused Deposition Modeling (FDM), and Stereolithography (SLA) will be presented and utilized during hands-on laboratory projects. Strategic material selection to optimize functionality and performance of 3D printed parts, will be incorporated in project design. The students will design, prepare, print, and test functional 3D parts. Various slicer software programs will be used to design parts for 3D printing. Prerequisite(s): MET 150 or ARC 123 Corequisite(s): MET 301L
Credits: Credits:3 (2,2)

MET 302 Dynamics
This course covers rectilinear motion of particles (position, velocity, and acceleration), such as uniform rectilinear motion, uniformly accelerated rectilinear motion, and introduction to motion of several particles. In addition, an introduction to curvilinear motion of particles, as well as kinetics of particles: Newton's second law of motion, principles of work and energy and applications, impulse and momentum theory, and applications of the above topics to engineering problems will be covered in this course. Prerequisite(s): MET 201 and (MTH 236 or MTH 151) all with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MET 303 Tool Design
This course covers the fundamentals of tool design, with main focus on the principles of jigs and fixtures design. Topics covered include: General tool design, economics of tool design, materials used for tooling, work holding principles, jig design, fixture design, die design and operation, power presses, metal cutting, forming and drawing. Students will be using Computer Aided Design (CAD) software packages in designing different jigs and fixtures. Applications of the theoretical concepts and hands-on 3D CAD modeling are covered in the required laboratory. Prerequisite(s): MET 104 or MET 150 and MET 127 with a grade of C or higher Corequisite(s): MET 303L
Credits: Credits:3 (2,2)

MET 305 Tooling for Composites
This is a theory and laboratory course covering an introduction to advanced composite materials and design of production tools and parts. Some included topics are: mold designs, open mold process, resin transfer molding, vacuum infusion process, compression molding, filament winding, and inspection and repair. Design assignments will be given to students which require utilizing the computer laboratories to use the 3-dimensional (3D) parametric design software packages. Prerequisite(s): MET 207 Corequisite(s): MET 305L
Course Offered: Spring
Credits: Credits:3 (2,2)

MET 307 Electromechanical Control Sys
This course covers the fundamentals and physical principles of electro-pneumatic and hydraulic control circuits. Pneumatic and hydraulic components such as directional control valves, flow control valves, and pressure control valves will be covered. The course also covers programmable logic controller (PLC) using Allen-Bradley MicroLogix controller. Students will be designing and troubleshooting PLC controlled hydraulic and electro-pneumatic circuits in the laboratory. Automation Studio software will be used in designing and simulation of control circuits. Prerequisite: MET 230 Corequisite: MET 307L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 308 Machine and Product Design
This course introduces students to the fundamentals of machine component design. Subjects covered include safety factors, theories of failure, shaft design, roller bearings, gear design, spring design, pressure vessels, and fasteners. The laboratory section includes analysis of stresses (principal stresses and maximum shear stresses), applications of plane stress (combined loadings, pressure vessels, and beams), design of shafts and shaft components, and design of springs. Prerequisite(s): MET 206 with a grade of C or higher Corequisite(s): MET 308L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 309 Machine Learning for Applied Engineering
This course introduces the fundamental theories and practical applications of machine learning (ML) in engineering technology, focusing on using existing Al tools to solve real-world engineering problems across a wide range of fields. Students will explore supervised and unsupervised learning, neural networks, and reinforcement learning, applying these concepts in areas such as robotics, automation, manufacturing, control systems, infrastructure management, energy systems, resource optimization, and other related engineering applications. Through hands-on labs, students will learn to train and tune ML models, implement computer vision for engineering tasks like object detection and quality control, control complex systems, and optimize dynamic processes using reinforcement learning. Prerequisite(s): MTH 110 and junior standing or above Corequisite(s): MET 309L
Credits: Credits:3 (2,2)

MET 314 Applied Thermodynamics
This course lays the groundwork for the student's future studies in the area of thermal design, encompassing the fields of power, heating, air conditioning and refrigeration. Topics covered include basics such as the first and second laws of thermodynamics, equations of state for gases and vapors, and psychometrics. Building on this foundation, thermodynamic processes and cycles will be introduced, including the Carnot, and Vapor Compression refrigeration cycles. Thermal equipment such as boilers, turbines, evaporators, condensers, compressors and heat exchangers will be analyzed. Prerequisite(s): (PHY 136 or PHY 144) and (MTH 130 or MTH 150)
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MET 351 Computer Aided Manufacturing (CAM)
This course provides the student with experience in computer graphics NC programming techniques. Students will generate 2-D and 3-D parts on CAM software and analyze the tool paths required for various types of machining operations. Programs will be processed to produce EIA-NC code which will then be loaded into a CNC machine to manufacture a part. Students will also create 2-D and 3-D files on CAD software and learn how to export the CAD files to CAM software. Prerequisite(s): MET 127 and Junior Status
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MET 400 Computer Aided Engineering
This course builds on students' previous experience in solid modeling and machine and product design. It covers finite element modeling of bars and trusses with stiffness matrix method, design for manufacturability and assembly, robust design optimization and design for reliability. Students will learn how to set-up loads, boundary conditions and assign materials in a computer aided engineering (CAE) software. The applications of CAE in linear and nonlinear static analysis, linear buckling analysis, impact analysis and modal analysis of mechanical systems will be an essential part of the course. Finite element analysis simulations will be completed during the laboratory section of the course. Prerequisite(s): MET 150, MET 308 Corequisite(s): MET 400L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 406 Electronic Packaging Applications
Electronic Packaging offers a comprehensive exploration of the principles, design, and applications essential to electronic packaging, spanning the manufacturing process from water to die, printed circuit boards (PCBs), and system-level packaging. The course focuses on critical mechanical, thermal, and electrical design factors relevant to students in Mechanical

Engineering Technology. Key topics include material selection, thermal management techniques, mechanical stress and fatigue analysis, shock and vibration mitigation, electromagnetic interference control, and reliability testing. Laboratory sessions complement the theoretical foundation with hands-on experience using CAD tools and other computer-aided design software for real-world applications. Prerequisite(s): MET 150 and MET 230 Corequisite(s): MET 406L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 409 Statistical Quality Control
Students will be introduced to techniques for determining the quality of mass manufactured products by means of statistical analysis. State of-the-art computers and software will be used to generate and analyze process control charts and histograms, plus continuous variables, and attribute control charts. Tests for special causes and capability analysis of a process will be addressed. Prediction of the probable percentage defective in a monitored process as well as the producer's and customer's risk will be emphasized. Students will learn to define the Acceptance Quality Level (AQL) and the military sampling plans (MIL Standard). Applications of the theoretical concepts are covered in the required laboratory. Prerequisite(s): MET 109, MET 252, MTH 110 Corequisite(s): MET 409L
Course Offered: Spring
Credits: Credits:3 (2,2)

MET 410W Senior Project (Writing Intensive)
This is a capstone course required for Manufacturing and Mechanical Engineering Technology BS programs. This course is offered as an independent investigation of a technical problem by the student under the supervision of a faculty member. The selected project topic utilizes skills and knowledge acquired earlier in the Mechanical Engineering Technology or Manufacturing Engineering Technology programs to solve a wide range of engineering problems. At the completion of the project, an oral presentation and a written report are required. This is a writing-intensive course. Note: Offered at the discretion of the Mechanical Engineering Technology Department. Prerequisite(s): Senior Status and Approval of Department Chair and EGL 101 with a grade of C or better.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MET 411 Applied Heat Transfer
This course will provide students with a basic understanding of problems of heat transfer. The fundamental laws of conduction, convection, and radiation are studied using analytical and graphical methods. Graphical and empirical solutions and applications to industrial problems will also be covered plus special topics in heat exchangers, heat pipes, and industrial furnaces. Prerequisite(s): MET 212, MTH 236 or MTH 151
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MET 415 Robotics
Students will be introduced to robotics from both a theoretical and practical aspect. Different types of robots and their applications in industry will be covered. Financial management and return on investment of the robotics applications will be discussed. Additional topics included are motion transmission and control of robot mechanisms, robot programming, the use of robots in an integrated manufacturing cell, and practical uses of the robot vision system. Hands-on experience on actual working robots and the application of the theory will be provided in the laboratory. Prerequisite: (MTH 236 or MTH 151) and Senior Status Corequisite(s): MET 415L
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

MET 417 Automation and Control Systems
This course covers topics in Programmable Logic Controllers (PLC) and Human Machine Interface (HMI) for manufacturing and assembly line automations. Students will learn how to use different types of sensors to collect digital/analog data to control PLCs. Students will learn how to program a PLC utilizing math and comparison instructions, program flow controls and sequence logic. In addition to PLC programming and applications, the students will also learn the basics of HMI setups, designing and programming of the HMI, and how to use HMI to interact and monitor PLC data. The laboratory portion of the course will provide students with a hands-on experience in programming as well as mechanical and electrical setup and connections for automation projects. Students will use trainers to design, test and debug PLC and HMI programs to simulate real-world problems. Prerequisite(s): MET 307 Corequisite(s): MET 417L
Credits: Credits:3 (2,2)

MODERN LANGUAGES (MLG)

MLG 100 Introduction to World Languages
This course will introduce students to the wide variety of languages across the globe. What are language “families”? How are they similar? How are they different? How and why do languages change over time? How do different languages express thought and emotion through words and sentence structure? The relationship of a particular language to history, geography, politics and society will be emphasized throughout this course, with the help of a user-friendly companion website.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

MLG 201 Italian Food, Culture, and History
This course analyzes the history of Italian food and its connections to historic events and cultural changes that took place in the most representative Italian cities and regions from the Middle Ages through the present. The Italian cities and historical periods analyzed are selected to provide a broad historical and social perspective that aim to be both a history of Italian food and a history of Italy through its food. Prerequisite(s): EGL 102
Course Offered: Fall
Credits: Credits:3 (3,0)

MLG 300 International Cinema
Selected international films will be viewed, analyzed, and discussed in terms of their historical, social, political, and economic context as well as for their aesthetic value. Readings, lectures, and class discussions are organized to teach coherency in reading filmic works. Prerequisite(s): EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MLG 301 Italian Cinema (In English)
Representative Italian films, from the post-war and Neorealism to the present, will be viewed, analyzed and discussed. Films are selected to provide a broad historical and social perspective as seen through the artistic vision of individual directors. The course will be conducted in English and all films have English subtitles. Prerequisite(s): EGL 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MLG 302 Spanish and Latin American Cinema
In this course, representative Spanish and Latin American movies that cover periods from Romanticism to contemporary times will be analyzed, viewed and discussed. Films will be chosen to discuss social, philosophical, political and identity problems as well as its interpretation according to the artistic vision and directors' achievements and goals. Theory and history of film genres of Spain and Latin America cinema will be studied. The course will be conducted in English and all movies have English subtitles. Prerequisite(s): EGL 102
Course Offered: Summer
Credits: Credits:3 (3,0)

MLG 303 French Cinema (In English)
Representative French films from the lyrical traditional cinema to the New Wave of the sixties and to the new humanism of the present, will be viewed, analyzed and discussed. Films are selected to provide a broad historical, ideological and social perspective as seen through the eyes of individual directors. The course will be conducted in English and all films have English subtitles. Prerequisite(s): EGL 102
Course Offered: Fall
Credits: Credits:3 (3,0)

MLG 304 French Culture and Civilization
An examination of contemporary France and its political, economic and social development. French cultural life and institutions in France will also be considered. This course may not be used to satisfy the foreign language proficiency requirement. Prerequisite(s): EGL 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MLG 305 Hispanic and Latin American Culture and Civilization
Civilization course: Provides a general perspective on the formation of the Latin American Culture through the centuries, with special emphasis on Spanish America. In parallel form, historical and cultural evolution of the New World and the Iberian Peninsula will be studied, from their beginnings

up to the present. Among other aspects, the course will give special attention to the rich multicultural heritage which has been maintained in Latin America through the centuries, as well as its achievements in Art and Literature. NOTE: Students cannot earn credit for MLG 305 and MLG 305*D MLG 305*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MLG 306 Italian Culture and Civilization
An examination of contemporary Italy and its political, economic and social development. Italian cultural life and institutions in Italy will also be considered. This course may not be used to satisfy the foreign language proficiency requirements. Prerequisite(s): EGL 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MLG 307 French and Francophone Fiction and Film
This course will explore the relationship between literary works and their film adaptations in France and all over the French-speaking world. Selections will be read from novels, short stories, and poems, and major literary movements will be discussed. Students will analyze how literary images and themes are translated onto the big screen. Topics include the French heritage novel, the North African Arab/ French experience, the West African and Caribbean Negritude Movements, and French-Canadian literature and film. All readings and films in English translation. Prerequisite(s): EGL 102
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

MLG 308 Arabic Culture and Civilization
This course examines Arabic culture and civilization through an analysis of historical, educational, social and climatic factors. The course will focus on issues arising out of intra-cultural and intercultural communication with today's economic and socio-political currents focusing on American and Arab relations. Prerequisite(s): EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MLG 309 Arabic Cinema
This course examines a diverse body of motion pictures produced in the Arab world. Through films, critical readings and in class discussion, students will acquire and develop an understanding of Arabic culture and a great appreciation for the art history of Arab Cinema from across the 22 Arab nations. Prerequisite(s): EGL 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MLG 310 Latin American Women Writers
This course focuses on the works of major Latin-American women writers from the 17th to the 20th century. We will analyze poems, short stories and novels and how women have been portrayed in literature. The theoretical approach to this class will be based on contemporary feminist critics. We will study the works of the first 17th century Mexican feminist writer, The Nun, Sor Juana Ines De La Cruz, as well as the works of Elena Poniatowska, Julia Alvarez and Laura Ezquivel among others. Note: Students completing this course may not receive credit for SPA 310. Prerequisite(s): EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MLG 311 Italian American Experiences
"Italian American Experiences" is an introduction to the experiences of people that created a unique and distinctive ethnic culture. The course begins with fundamental Italian heritage and examines the role of immigration and assimilation in a new world as Italian culture combined with the American experience to form the Italian-American culture. Italian-American studies offer students an opportunity to survey development in history, literature, media, art, and sociology. It also provides students with an in-depth exploration of the role ethnicity plays in what it means to be an Italian-American. Prerequisite(s): EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MLG 312 Contemporary Latin American Short Stories
An introduction to different literary movements reflected in Latin American Short Stories in translation during the 20th Century. The emphasis will be the lyrical basis of the realistic, surrealistic and supernatural elements in the stories of Latin American Writers. Modern women writers' esthetics and poetic sensitivity as well as humor and sarcasm will be included in both the observation of individual psychology and tales of the absurd. Summarizing, and using Anderson Imbert's three basic definitions, the focus of this course will be: a) reality (realism); b) the supernatural (literature of the fantastic); c) the strange (magic realism). Note: Students completing this course cannot receive credit for SPA 312. Prerequisite(s): EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MLG 313 Science, Literature, and Film in the Hispanic World
This course takes an integrated vision of reality in which the sciences and technologies, together with the humanities, take active part in the sociocultural system. This course synthesizes two supposedly antagonistic systems: the humanities and the sciences, and creates a communication between humanists and scientists. The course traces how the Hispanic world represented scientific activities in history and examines the interplay between sciences and humanities through Hispanic literature and film. Prerequisite(s): EGL 102
Course Offered: Fall
Credits: Credits:3 (3,0)

MLG 314 Hispanic Fiction to Film
Fiction like film is a narrative storytelling art form. In this class students will study the adaption of written, fictional works and their correspondent films. Students will also study the narrative devices, techniques and formal properties used to tell a story that are particular to film but not found in literature, such as camera angle, camera distance, editing, cross-cutting, montage, framing, and camera movement. This course will take a critical approach to examining the narrative language utilized by fiction and film with the objective of developing a more critical eye for interpreting both mediums. Prerequisite(s): EGL 102
Course Offered: Fall
Credits: Credits:3 (3,0)

MLG 315 Art, Culture and Civilization of Spain
Study of Spain, a multicultural and multilingual nation, not as a homogeneous entity but rather as a heterogeneous tapestry of various culture and languages. The corpus of cultural texts studied will be derived from the realms of literature, film, architecture, music and the visual arts. They will be analyzed within their socio- historical context as well as their aesthetic value. Note: Students completing this course cannot receive credit for SPA 315. Prerequisite(s): EGL 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MLG 316 French Fables and Folktales
This course will examine the literary tradition of the fable, the folktale, the fairy tale, the myth, and the legend in France throughout the centuries. Starting with the period of King Clovis I in the late 400s A.D. and ending with 20th century folklore, we will delve into the nature of these short stories, asking a variety of questions. Who is the intended audience? Are there different versions of the same tale, and why? What are the differences between oral tradition and written tradition? How are these French stories represented in other nations' literature, art and film? Finally, we will briefly chart the rich tradition of Cajun and Creole folklore of present-day South Louisiana, as well as that of French Canada and Haiti. Prerequisite(s): EGL 102
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

MLG 317 The Arab-American Experience
This course will examine the assimilation of Arab immigrants within the United States and their unique contribution in creating a rich multicultural society. The course will allow students to learn about the Arab-American community through history, literature and sociology by using creative media tools such as art, music, films and documentaries. In addition, the course will examine political and social stereotypes of Arab-Americans as portrayed in current events. Prerequisite(s): EGL 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MLG 318 Italy: From Text to Film
This course will introduce the student to key topics within Italian culture as explored through Italian cinema and literature. Students will analyze narrative devices that tell a story, from the use of various styles of prose in written works to camera angles, editing techniques, and music in film.

Through in-class readings of textual and cinematic expressions, including their theoretical background, students will learn to articulate both literary and cinematic criticism. Prerequisite(s): EGL 102
Course Offered: Summer
Credits: Credits:3 (3,0)

MLG 319 Italian Migrations to the Americas in Film
Selected films on Italian emigration to the Americas-North and South-will be viewed, analyzed, and discussed in terms of their historical, social, political, and economic context as well as for their aesthetic qualities and the process behind their creation. Films are selected to provide a broad historical and social perspective as seen through the artistic vision of individual directors, both Italian and non-Italian. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

MLG 320 Latino Writers in the U.S.
The development of Latino literature and culture in the United States, with emphasis on the 20th century. Major writings of Mexican, Cuban, Dominican Republican, Puerto Rican and other Latinos will be analyzed in relation to each group's particular experience and its relation to main stream society. Particular attention given to how gender, race, ethnicity, and class interaction affects the formation of the diverse cultural experience of the U.S. Latino. This course will be taught in English. Prerequisite(s): EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MLG 321 Chinese Culture and Civilization
This course covers the development of Chinese civilization from Neolithic times to the present. It examines both the evolution and the continuities of this ancient culture, including aspects of philosophy, religion and ritual, social life, literature, and art. Prerequisite(s): EGL 102
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MLG 322 The Latin American Novel
This course focuses on the major works of Latin American writers and their contribution to the literary world. Relevant novels from the 18th to the 20th century literary movements will be analyzed, including topics such as Colonialism, Romanticism, Magic Realism will be analyzed. Several Nobel Prize winners like Gabriel Garcia Marquez, Mario Vargas Llosa and Miguel Angel Asturias will be included, as well as renowned women writers Laura Restrepo, Elena Garro, and Elena Poniatowska among others will be studied. Prerequisite(s): EGL 102
Course Offered: Fall
Credits: Credits:3 (3,0)

MLG 323 The Holocaust in Italian Culture and Cinema
Through the theoretical and technical analysis of films and literature, students will learn how Italian popular culture represented of the role that Italian citizen and the government had in the implementation of the Holocaust. Prerequisite(s): EGL 102
Credits: Credits:3 (3,0)

MLG 324 Italian Horror Films: Sex, Murder and Social Criticism
Italian horror films escape easy classification, but offer a glimpse into the cultural, economic, and political anxieties which inspired their directors. Characterized by carefully crafted soundtracks, non-sensical plots, saturated with color, violence, and nudity, these movies are cultural artifacts that invite profound reflections on issues of gender discrimination, economic inequality, racism and even anti-colonial criticism. During the semester students will acquire and sharpen analytical and critical skills that will allow them to dissect, eviscerate, analyze, and "take a stab" at interpreting Italian, and American societies. As a 300 level class, students are expected to complete weekly assignments which include writing short reflection essays, and reading scholarly articles. Prerequisite(s): EGL 102
Credits: Credits:3 (3,0)

MLG 325 Visions of the East in Hispanic Civilization
This course will study images and themes related to the East (the Middle East, East Asia and South Asia) that are developed in Hispanic civilization. Guided by Edward Said's influential work on "Orientalism", this course studies representations of the East through Spanish and Latin American cultures and artistic forms. Students are expected to memorize and identify facts and basic concepts, describe and explain the representations of the East in Hispanic civilization, apply their knowledge and interpret the visions of the East, analyze and compare different perspectives in Hispanic cultural forms, evaluate Hispanic Orientalism through analytical and critical thinking, and create and compose original and essays on Hispanic Orientalism. Prerequisite(s): EGL 102
Credits: Credits:3 (3,0)

MLG 326 French and Francophone Literature through the Arts
This course explores the interplays between literary texts originating in the French-speaking world and a wide range of art forms and cultural expressions. Students will read a selected text or texts and examine the ways in which these inspire and are reinterpreted by forms as diverse as an opera, a comic book, an engraving, or a video game, to name a few. Inversely, the course may also examine allusions to non-literary works such as, for example, a painting or a film, within literary texts when applicable. Among the questions considered will be the contexts in which the studied literary and nonliterary works emerged as well as the various "readings" and interpretations that can be found throughout their adaptations. Studied works and topics will vary. Texts will be read in English translations. Prerequisite(s): EGL 102
Credits: Credits:3 (3,0)

MLG 327 Indigenous People in Latin America
This course offers an introduction to Indigenous Studies in Latin America by exploring the formation of Indigenous peoples' identity after the European invasion and their struggle against ongoing colonization and modernization. Students will discuss Indigenous peoples' ancestral and cotemporaneous knowledge regarding the natural environment, gender relations, politics, economics, and the arts. The course will showcase Indigenous epistemologies that challenge hegemonic understandings of economic growth and human and non-human relations. Moreover, students will compare and contextualize the experiences and perspectives of Indigenous peoples from Latin America, North America, and other world regions. Prerequisite(s): EGL 102
Credits: Credits:3 (3,0)

MLG 333 Languages of the World
This course will analyze the rich diversity of languages across the globe. How are language “families” determined? What do all human languages have in common, and how do they differ? What roles do history, politics, geography, and culture play in the development of a particular language? We will also study the building blocks of oral and written language: grammar and syntax. What are the differences between a “language”, a “dialect”, and a “slang”? Using the textbook and many internet resources, students will interpret data from linguistic charts, graphs, and maps. By the end of this course, unfamiliar languages and peoples will have been discovered, and familiar languages and peoples will have been re-discovered Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

MEDICAL LABORATORY SCIENCE (MLS)

MLS 105 Medical Laboratory Techniques
This course introduces the professional and technical responsibilities of medical laboratory professionals. Topics include phlebotomy, medical terminology, and professional topics such as legal and ethical issues, communication, hospital and laboratory organization, and regulation of educational programs, laboratory facilities, and licensure and certification of laboratory professionals. In the laboratory, phlebotomy techniques are practiced and the routine testing performed in the main areas of laboratory science (Microbiology, Hematology/Coagulation, Immunohematology, Immunology/Serology, Chemistry, and Urinalysis) are explored. Corequisite: MLS 105L
Course Offered: Fall
Credits: Credits:2 (1,2)

MLS 227 Immunology and Serology
The theory component of this course includes the study of the body’s immune system, the clinical testing methods used to evaluate immune system function, and the disease processes that are diagnosed through the use of serological methods. The chemical properties and physiological behavior of antigens, immunoglobulins, and complement are considered in detail along with the cellular interactions necessary for proper function of the immune system. The laboratory component of the course focuses on the performance and interpretation of serological diagnostic procedures for a variety of immune disorders and infectious diseases. Prerequisite(s): MLS 105, BIO 130, CHM 152 all with a grade of C or higher. Corequisite: MLS 227L
Course Offered: Fall
Credits: Credits:4 (3,2)

MLS 236 Histological Techniques
This course introduces the basic histological techniques involved in the processing of histology specimens in the anatomic pathology laboratory. The techniques involved in fixation, processing/embedding, microtomy, and staining of laboratory specimens are included. The course is designed as an online theory section accompanied by a ten day full time clinical internship at an off campus affiliated pathology laboratory. Students are responsible for their own transportation to the clinical location. Prerequisite(s): MLS 105 and BIO 130 and (BIO 166 or BIO 171) all with a grade of C or higher.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,0,3)

MLS 320 Hematology I
The theory component of this course focuses on hematopoiesis and the formed elements of blood under normal and abnormal conditions. The development and function of erythrocytes and leukocytes, the pathophysiology of hematology-related disorders, and the laboratory investigation that confirms the presence of benign and malignant disorders will be discussed. The theory and practice of the complete blood count as a diagnostic tool will be emphasized. In the laboratory setting, principles of automation and technical skills in routine hematology procedures will be developed. Peripheral smears will be reviewed to study the morphology of the cellular components in the blood. Students will apply quality practices, and use both manual and automated technologies. Quality control and patient results will be interpreted, and abnormal results will be correlated with hematological disorders. Venipuncture will be utilized to obtain specimens for study. Prerequisite(s): MLS 105, BIO 130 both with a grade of C or higher Corequisite(s): MLS 320L
Course Offered: Fall
Credits: Credits:4 (3,3)

MLS 325W Lab Management & Information (Writing Intensive)
This course presents the principles and practices of quality management in the clinical laboratory, including laboratory administration, supervision, financial and human resource management, safety and problem solving. Regulatory agencies responsible for monitoring laboratory practices will be discussed. Topics will include quality assurance and quality control, implementation of new test methods, equipment evaluation and selection proficiency testing, laboratory inspection procedures, selection, validation and utilization of laboratory information services specific to clinical and research laboratories. Each student will be required to submit a research topic related to clinical laboratory management and informatics. This is a writing intensive course. Note: Offered at the discretion of the Medical Laboratory Technology Department Prerequisite(s): MTH 110 and EGL 101 both with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MLS 330 Immunohematology I
Blood banking theory and practice are integrated in this course which provides the foundation for a two course sequence. Topics covered include blood group genetics, blood group characteristics, antigen-antibody reactions and routine pre-transfusion testing. Identification of unexpected antibodies, compatibility and related problem solving strategies are introduced. Perinatal issues and automation in transfusion practices are covered. The required laboratory component of this course emphasizes the development and proficiency of technologist level technical skills that are required for practice in a transfusion medicine facility. Note: the laboratory course, MLS 330L is a part of your grade for this course. Prerequisite(s): MLS 227, with a grade of C or higher Corequisite(s): MLS 330L
Course Offered: Spring
Credits: Credits:4 (3,3)

MLS 340 Clinical Chemistry I
This course covers the biochemical analysis of body fluids, with the main focus on serum/plasma constituents. There is an emphasis on the principles of method, analytical procedures, and correlation of data with both abnormal and normal physiological processes for a broad spectrum of available chemistry laboratory tests. The major topics covered in both the laboratory and lecture include carbohydrates, lipids, proteins, enzymes, cardiac function, hepatic function, non-protein nitrogenous components, renal function, electrolytes, and acid base equilibrium. Case studies will be used to correlate test results with patient diagnoses, leading to an understanding of the interrelationship between the various laboratory tests performed and the assessment of the patient in health and disease states. Chemical analyses are performed using manual techniques in the required laboratory portion of the course. Development of technical skills, interpretation and monitoring of quality control, as well as interpretation of patient results are emphasized during the laboratory. Prerequisite(s): BIO 166, CHM 152, CHM 153, and MTH 110 all with a grade of C or higher Corequisite: MLS 340L
Course Offered: Spring
Credits: Credits:4 (3,3)

MLS 350 Clinical Microbiology I
This course discusses the medically important yeasts and fungi, protozoa and metazoa. Identification of medically important arthropods will also be discussed. Discussion of the Rickettsiaceae and Anaplasmataceae will be included in this course. Antibiotic testing and treatment of these groups of organisms is included. The laboratory emphasis is on the identification of the protozoa, metazoa, arthropods, yeast and, fungi. Staining and culture techniques for identification of these organisms will be discussed and/or performed. In addition, the laboratory covers standard microbiology techniques related to safety in the clinical microbiology laboratory, basic light microscopy, and aseptic technique. Prerequisite(s): BIO 130 and MLS 105 both with a grade of C or higher Corequisite(s): MLS 350L
Course Offered: Spring
Credits: Credits:4 (3,3)

MLS 351 Clinical Microbiology II
The principles of general microbiology including host/pathogen interactions, antibiotic action, and microbial growth are discussed. The role of the clinically important bacteria in infectious disease will be explored. The lecture emphasizes the Staphylococci, Streptococci, Neisseria, Enterobacteriaceae, Pseudomonas and other non-fermenters, Anaerobes, Haemophilus, HACEK organisms, Brucella, Bordetella, Francisella, Pasteurella, Corynebacterium, Listeria, Erysipelothrix, Bacillus, and the Aerobic Actinomycetes. The course emphasizes the identification of microorganisms through biochemical and serological procedures. Automation in the clinical microbiology lab will be discussed. The major groups covered in the laboratory include the Staphylococci, Streptococcus, Enterococcus, Enterobacteriaceae, Pseudomonas and other non-fermenting gram negative rods, Gram positive rods, Anaerobes, and Haemophilus. Each student will receive multiple unknown bacteria to identify. Gram stain and acid fast staining will be performed. Prerequisite(s): MLS 350 with a grade of C or higher Corequisite(s): MLS 351T
Course Offered: Fall
Credits: Credits:4 (3,3)

MLS 420 Hematology II
This course is a continuation of Hematology I that covers advanced hematology principles and techniques, as well as new topics in the areas of coagulation and body fluids. Routine urinalysis, including renal physiology, in normal and abnormal states with a focus on physical, biochemical, and microscopic findings will be included, as will laboratory analysis of cerebrospinal, synovial, serous, seminal, amniotic, sweat, and fecal specimens. Primary and secondary hemostasis, fibrinolysis, and coagulation-related disorders will be presented, with a focus on the effects of anticoagulant therapy. The required laboratory portion of the course allows for technical development of skills in body fluid analysis, urinalysis, and coagulation studies. A case study style theoretical approach will accompany the continued practice of hematology methods in the lab portion of this course, encouraging problem solving in the diagnosis of hematological disorders. Manual and automated technologies will be incorporated for the processing of patient specimens and quality control. Quality assurance and communication skills will also be emphasized. Prerequisite(s): MLS 320 with a grade of C or higher Corequisite(s): MLS 420L
Course Offered: Spring
Credits: Credits:4 (3,3)

MLS 421 Molecular Pathology
This course will provide an overview of the applications of DNA and RNA analysis in the diagnostic clinical laboratory. Examples of molecular techniques and how they are applied in the field of laboratory medicine will be covered. Applications of molecular pathology in the areas of oncology, hematology, infectious disease, histocompatibility, coagulation, blood banking, and the identification of disease markers will be included. Best practices for specimen collection and handling that are required for the specific methodology for each application will be covered. Emerging technological advances in molecular laboratory settings and new practices will be included in the course as they are developed. Prerequisite(s): BIO 348T and BIO 349L with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

MLS 425 Laboratory Research and Education
This course presents the principles and practices of applied research design, education, and training for clinical laboratory technologists. Research designs, sampling methodologies, collection and analysis of data in the research process will be discussed. Topics related to education include the domains and levels of learning, constructing behavioral objectives, learning outcomes, and clinical training strategies. Strategies for effective communication in the clinical laboratory workplace will also be discussed. Each student will be required to design an applied research study on a topic related to clinical laboratory science. Prerequisite(s): MLS 325 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MLS 430 Immunohematology II
This course presents advanced immunohematology principles and techniques in preparation for practice in the clinical blood bank laboratory. Case study analysis will be used to formulate approaches to solving complex serologic problems. Topics to be addressed include blood group systems, antibody identification techniques, blood donor collection practices, compatibility and investigation of adverse transfusion reactions. Blood bank quality management, ethical and legal issues and alternative technologies in blood banking will be discussed. This course is the culmination of a two course sequence. Prerequisite: MLS 330, with a grade of C or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

MLS 440 Clinical Chemistry II
In this course analytical techniques, instrumentation, and automation in the clinical chemistry laboratory will be introduced. Students will study quality assurance, quality control, and troubleshooting techniques. Laboratory-related mathematics will be covered (dilutions, preparing solutions, conversions). Lecture topics will also include vitamins, endocrinology (general, thyroid, adrenal, hypothalamus, and pituitary), therapeutic drug monitoring, and toxicology. Cumulative case studies will be utilized to review Clinical Chemistry topics. Prerequisite(s): MLS 340T with a grade of C or higher
Course Offered: Fall
Credits: Credits:2 (2,0)

MLS 450 Clinical Microbiology III
This course will use a problem solving approach to build upon the theoretical and technical concepts introduced in Clinical Microbiology I and II. A body's system approach and case studies will be used to correlate laboratory and clinical information related to infectious diseases and their diagnosis. Laboratory operations specific to clinical microbiology will be covered including the role of the clinical microbiology laboratory in infection prevention and public health. Discussion of recovery and identification of the Mycobacteria, Spirochetes, Chlamydia, Mycoplasma and Ureaplasma will be included. Clinically important viruses and basic viral culture techniques will be discussed along with advanced concepts in antimicrobial testing and resistance detection. Emerging pathogens will be introduced. Prerequisite(s): MLS 350, MLS 351 both with a grade of C or higher
Course Offered: Spring
Credits: Credits:3 (3,0)

MLS 460L Medical Laboratory Science Capstone
In this capstone course, students will reexamine all subject areas included in the medical laboratory science curriculum. Blood bank, Urinalysis and Body Fluids, Clinical Chemistry, Hematology, Immunology, Microbiology, and Laboratory Operations will be reviewed using an advanced case study approach that encourages critical thinking. Laboratory results will be analyzed, evaluated, and correlated with various disease processes and conditions. An emphasis on quality control and quality assurance will be included throughout the course. For the final capstone project students will create a unique case study that incorporates three or more areas of the medical laboratory. Final projects will be presented, followed by a supplemental assessment, developed by the student teacher to evaluate the gained knowledge/comprehension of the audience. Mock board exams will be completed throughout the semester. Prerequisite(s): MLS 430 and MLS 440 with a grade of C or higher. Corequisite(s): MLS 420 and MLS 450
Course Offered: Fall, Spring, Summer
Credits: Credits:1 (0,3)

MLS 483 Practicum in Molecular Pathology
Students practice clinical skills in Molecular Pathology through a ten day clinical internship at an off campus affiliated clinical laboratory under the guidance of clinical laboratory personnel. The clinical coordinators at the affiliated sites will evaluate students for both technical proficiency and professional behavior demonstrated during the internship. Students are responsible for their own transportation to the clinical location. Prerequisite(s): Permission of department chairperson
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:1 (0,3)

MLS 491 Immunohematology Practicum
Students practice basic and advanced clinical skills in Immunohematology (Blood Bank) through a twenty-day clinical practicum at an off-campus affiliated clinical laboratory under the guidance of clinical laboratory personnel. The clinical coordinators at the affiliated sites will evaluate students for both technical proficiency and professional behavior demonstrated during the practicum experience. Students are responsible for their own transportation to the clinical location. Prerequisite(s): MLS 330 with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (0,0,6)

MLS 492 Clinical Chemistry & Serology Practicum
Students practice basic and advanced clinical skills in Clinical Chemistry and Serology through a twenty day clinical practicum at local affiliated clinical laboratories under the guidance of clinical laboratory personnel. The clinical coordinators at the affiliated sites will evaluate students for both technical proficiency and professional behavior demonstrated during the practicum experience. Students are responsible for their own transportation to the clinical location. Prerequisite(s): MLS 227 and MLS 340 all with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (0,0,6)

MLS 493 Hematology & Urinalysis Practicum
Students practice basic and advanced clinical skills in Hematology, Coagulation, and Urinalysis through a twenty day clinical practicum at local affiliated clinical laboratories under the guidance of clinical laboratory personnel. The clinical coordinators at the affiliated sites will evaluate students for both technical proficiency and professional behavior demonstrated during the practicum experience. Students are responsible for their own transportation to the clinical location. Prerequisite(s): MLS 320 and MLS 420 all with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (0,0,6)

MLS 494 Microbiology Practicum
Students practice basic and advanced clinical skills in Clinical Microbiology through a twenty-day clinical internship at an off-campus affiliated clinical laboratory under the guidance of clinical laboratory personnel. The clinical coordinators at the affiliated site will evaluate students for both technical proficiency and professional behavior demonstrated during the practicum experience. Students are responsible for their own transportation to the clinical location. Prerequisite(s): MLS 350 and MLS 351 and MLS 450 all with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (0,0,6)

MATHEMATICS (MTH)

MTH 015 Elements of Algebra
This course fulfills the elementary algebra requirement for entrance into many programs at the College. Topics include numeric and algebraic operations, solutions of linear equations and inequalities, graphs and equations of lines, systems of linear equations, polynomial operations, factoring, and solution of quadratic equations. The minimum passing grade is C-. Grade will not be computed into GPA. This course is not applicable toward a degree.
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,0)

MTH 102 Elementary Discrete Mathematical Models
An introduction to Discrete Mathematical Models that utilize topics including Matrix Algebra, Linear Programming, the Simplex Method, the Method of Least Squares, Markov Chains, Game Theory and Exponential Growth. Models include the Leontief Input-Output Model,

the Transportation Problem, Finance Investment Strategies, Management Decisions and Campaign Strategies. The course makes use of computer software such as the spreadsheet software EXCEL and the TI-86 graphing calculator or equivalent. A graphing calculator is required. Prerequisite(s): MP2 or MTH 015
Credits: Credits:3 (3,0)

MTH 103 Sets, Probability and Logic
This course uses set theory to develop the basic concepts of finite probability. The student is introduced to the tree and to the counting methods of devising sample spaces. The probability of mutually exclusive events, dependent and independent events are treated. Some applications to probability distributions of discrete variables are included. Finally, the basic topics in symbolic logic are covered. Prerequisite(s): MP2 or MTH 015
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MTH 107 Introduction to Mathematical Ideas
A survey of contemporary topics in mathematics designed to develop an appreciation of the power and significance of mathematics and its uses in modeling the world around us. Topics may include the mathematics of social choice, growth and symmetry, mathematical systems, Euclidean and non-Euclidean geometries, management science. Prerequisite(s): MP2 or MTH 015
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MTH 110 Statistics
Basic concepts of probability and statistical inference. Included are the binominal, normal, and chi-square distributions. Practical applications are examined. Computer assignments using Minitab form an integral part of the course. Prerequisite(s): MP2 or MTH 015
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

MTH 110R Statistics
Basic concepts of probability and statistical inference. Included are the binominal, normal, and chi-square distributions. Practical applications are examined. Computer assignments using Minitab form an integral part of the course. Prerequisite(s): MP2 or MTH 015
Credits: Credits:3 (3,0,1)

MTH 116 College Algebra
This course is designed to provide students with a firm foundation in symbolic manipulation and algebraic reasoning. Both manipulative skills and conceptual understanding of algebraic principles are stressed. Topics include equivalent expressions and equations, linear functions, properties of exponents and logarithms, quadratic equations, power functions, exponential functions. Upon completion of this course students will be prepared for precalculus as well as for quantitative courses in the natural and social sciences. Note: Students cannot earn credit for MTH 116 if MTH 116R was taken. Prerequisite(s): MP2 or MTH 015
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:4 (4,0)

MTH 116R College Algebra
This course is designed to provide students with a firm foundation in symbolic manipulation and algebraic reasoning. Both manipulative skills and conceptual understanding of algebraic principles are stressed. Topics include equivalent expressions and equations, linear functions, properties of exponents and logarithms, quadratic equations, power functions, exponential functions. Upon completion of this course students will be prepared for precalculus as well as for quantitative courses in the natural and social sciences. Prerequisite(s): MP2 or MTH 015 or Permission from the department
Course Offered: Fall, Spring
Credits: Credits:4 (4,0,1)

MTH 117 Precalculus with Applications
This is a Precalculus course with applications from various disciplines including technology, science, and business. This course uses linear, power, polynomial, exponential, logarithmic, and trigonometric functions to model real world problems. The important characteristics and properties of these functions are investigated. The emphasis is on applications and problem solving. Note: Students completing this course may not receive credit for MTH 129. Prerequisite(s): MP3 or MTH 116
Course Offered: Fall, Spring
Credits: Credits:4 (4,0)

MTH 129 Precalculus
In this course, the topics introduced in College Algebra course will be extended. The course will provide a comprehensive study of functions, which are the basis of calculus and other higher-level mathematics courses. The students will study the properties, graphs, and some applications of polynomial, rational, inverse, exponential, logarithmic, and trigonometric functions. Note: Students completing this course may not receive credit for MTH 117. Prerequisite(s): MP3 or MTH 116
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,0)

MTH 130 Calculus I with Applications
This is a calculus course for those not majoring in Mathematics. Topics include the derivative, differentiation of algebraic, trigonometric, exponential and logarithmic functions, applications of the derivative and the definite integral. Applications are taken from technology, science, and business. Problem solving is stressed. A graphing calculator is required. Note: Students completing this course will not receive credit for MTH 150. This course may be non-transferable to science programs, such as Engineering Science or Computer Science, at other institutions. Prerequisite(s): MP4 or MTH 117 or 129
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,0)

MTH 150 Calculus I
This is the first course of the calculus sequence. Topics include limits, continuity, differentiation of functions of one variable, anti-differentiation, introduction to Riemann sums and integration, the fundamental theorem of calculus, and applications of differentiation and integration. Note: Students completing this course may not receive credit for MTH 130. Prerequisite(s): MP4 or MTH 117 or 129
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,0)

MTH 151 Calculus II
A continuation of Calculus I (MTH 150). Topics include, integration of the transcendental functions, various techniques of integration with applications, improper integrals, sequences and series, power series, and Taylor series. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,0)

MTH 236 Calculus II with Applications
A continuation of Calculus I with Applications. Topics include techniques of integration, applications of the definite integral, multivariable calculus, and an introduction to Differential Equations. Applications are taken from technology, science and business. Problem solving is emphasized. A graphing calculator is required. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MTH 245 Linear Algebra
A study of the basic properties of vectors and vector spaces; linear transformations and matrices; matrix representations of transformations; eigenvalues and eigenvectors of linear transformations; similarity of matrices, selected applications. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MTH 246 Introduction to Financial Mathematics
This is a course designed to introduce the basic concepts of financial mathematics including cashflows, the time value of money, compounding, and present and future value calculations for loans, annuities, and bonds. The course presents the basic no-arbitrage principal to derive forward interest rates and stock prices as well as the prices of futures contracts. Students will be introduced to options, their characteristics, and put-call parity and will analyze the valuation of calls and puts, and general contingent claims, in the framework of the classical one-period binomial model. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Fall
Credits: Credits:3 (3,0)

MTH 250 Graph Theory and Combinatorics
An introductory to graph theory and combinatorial analysis. The emphasis is on problem solving and applications with some attention

to theorems and proofs. Topics include Graph Models, Isomorphism, Planar Graphs, Circuits and Graph coloring, Trees, Minimal Spanning Trees, Arrangements and selections, Generating Functions and Inclusion/ Exclusion. Prerequisite(s): MTH 150 Corequisite(s): MTH 245
Credits: Credits:3 (3,0)

MTH 252 Calculus III
This is the third course of the calculus sequence. It generalizes single variable calculus to multivariable calculus. Topics to be covered: polar coordinates and polar curves, vectors and analytical geometry in three dimensions, -functions of several variables, limits and continuity in space, partial and directional derivatives, gradients, multiple integrals in rectangular, polar, spherical, and cylindrical coordinates. Prerequisite(s): MTH 151
Course Offered: Fall
Credits: Credits:4 (4,0)

MTH 253 Differential Equations
This is an introductory course in ordinary Differential Equations designed to develop an understanding of the qualitative behavior of solutions and its relation to the process being modeled. Use of appropriate computer packages forms an integral part of the course. Topics include: first order differential equations and systems, linear systems, applications including electrical circuits and vibrations, introduction to Laplace Transform. Prerequisite(s): MTH 151 or MTH 236
Course Offered: Spring
Credits: Credits:4 (4,0)

MTH 270 Introduction to Mathematical Computing
This course is an introduction to computational, experimental, and algorithmic methods using a computer algebra system. Course topics include computational algebra, functional programming, simulation, and visualization. Numerical calculus, analysis of mathematical models and dynamics, and other mathematical problem-solving methods will be discussed. At the completion of the course, students will be familiar with a computer algebra system and how to solve mathematical problems by computational methods. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Spring
Credits: Credits:3 (3,0)

MTH 290 Methods of Proof in Advanced Mathematics
MTH 290 is intended to be a bridge course from lower-division mathematics courses to upper-division mathematics. Topics include Logic and Proofs, Set Theory, Relations, Functions (Onto, One-to-One, Sequences as Functions), Cardinality, Introduction to Algebraic Structures, and Introduction to Concepts of Analysis. The focus will be on writing clear and precise proofs. Prerequisite(s): MTH 151
Course Offered: Fall
Credits: Credits:3 (3,0)

MTH 315W History of Mathematics (Writing Intensive)
An investigation of the development of mathematics from ancient times to the present. Students will study topics which may include ancient mathematics (in particular, the Pythagorean Theorem and quadratic equations), Greek mathematics (Aristotle, Euclid, Archimedes, Apollonius, Ptolemy and Diophantus), medieval mathematics (China, India, Islam, Europe, America, and Africa), early modern mathematics (logarithms, analytic geometry, probability and the beginning of calculus), and modern mathematics (analysis, probability, number theory, abstract algebra linear algebra, non- Euclidean geometries, set theory, and topology). Each topic will be examined in the context of and why it was further developed. A vital component of the course will be a study of the mathematicians who provided us with these tools which are an integral part of mathematical applications in today's world. This is a writing-intensive course. Note: Offered at the discretion of the Applied Mathematics Department Prerequisite(s): EGL 101 with a grade of C or higher and MTH 151
Credits: Credits:3 (3,0)

MTH 320 Geometric Structures
An axiomatic view of Euclidean and non-Euclidian geometry. The standard models of the various geometries will be constructed. Careful emphasis on proof construction and understanding. Applications of Euclidean and Hyperbolic geometries will be given. Prerequisite(s): MTH 151 or MTH 236
Credits: Credits:3 (3,0)

MTH 322 Advanced Mathematical Analysis
Topics include: infinite series, first and second order differential equations and applications, homogeneous and forced response, Laplace transforms, Taylor series, matrices, Gauss-Elimination method. Prerequisite(s): MTH 236
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MTH 325 Mathematical Modeling in the Biological Sciences
The course will focus on mathematical models in biology, including topics such as the growth of populations, the interactions between different populations, the spread of epidemics, the Hardy-Weinberg law in genetics and drug levels in the bloodstream. The emphasis will be on determining the mathematical component of a phenomenon, creating an appropriate mathematical model, using the model to answer questions about the situation, and interpreting the effectiveness of the model. Technology will be used as an exploratory tool. Prerequisite(s): One semester of biology and MTH 151 or MTH 236
Credits: Credits:4 (4,0)

MTH 326 Mathematical Modeling in Applied Sciences
This course will investigate various mathematical models in the applied sciences taken from real life phenomena. Basic notions of abstraction and how to work on real problems at different levels will be introduced in the course. The Models are explored using analytical, computational and graphical tools as appropriate. Models cover but are not limited to examples from Finance, Economics, Ecology, the Environment, Engineering, Biology and Behavioral Sciences. Prerequisite(s): MTH 151 or MTH 236
Course Offered: Spring
Credits: Credits:3 (3,0)

MTH 330 Applied Abstract Algebra
Essential structures of modern algebra: sets, relations, groups, homomorphisms, and rings will be studied with a view toward their applicability. Applications may include error correcting codes, computational complexity, and counting problems. Prerequisite(s): MTH 245 and MTH 290
Credits: Credits:3 (3,0)

MTH 331 Introduction to Topology
This course introduces the basic concepts and some fundamental results of Point Set Topology. Some of the topics covered are: Open sets and the notion of continuity on various fundamental spaces (the real line, Euclidean spaces, metric spaces, and general topological spaces); connectedness, compactness, countability, and separation; the Tychonoff theorem. Prerequisite(s): MTH 252 and MTH 290
Credits: Credits:3 (3,0)

MTH 341 Probability
This course provides a calculus-based introduction to probability theory and its applications. Topics include: probability spaces, conditional probability and independence, discrete and continuous random variables, mathematical expectations, moment generating functions, bivariate distributions, and central limit theorem. Note: Students who take MTH 341 may not receive credit for MTH 360. Prerequisite(s): MTH 151
Credits: Credits:3 (3,0)

MTH 342 Statistical Inference
This course is an introduction to statistical inference. The overall objective of the course is the development of basic theory and methods for statistical inference. Topics include parameter estimation, interval estimation, hypothesis testing, regression analysis, and experimental design. Prerequisite(s): MTH 341
Credits: Credits:3 (3,0)

MTH 346 Quantitative Finance
This course introduces more advanced topics in financial mathematics. Multi-period, discrete-time asset pricing will be presented within the framework of the classic binomial tree model and it's application to pricing and hedging contingent claims, such as stock options and callable bonds, will be analyzed. The Black-Scholes option pricing formula will be presented and it's relationship to the discrete-time model will be explored. Option and bond risk-factors, such as delta/gamma and duration/convexity, will be introduced. Finally, mean-variance portfolio analysis will be presented, including the efficient frontier and optimal asset allocation. Throughout the course, students will gain insight via lab-projects to gain real-world experience in quantitative finance. Prerequisite(s): MTH 246
Course Offered: Spring

Credits: Credits:3 (3,0)

MTH 354 Principles of Real Analysis
Students will be introduced to the foundations of real analysis through a rigorous development of the real number system. This will be followed by a study of limits, continuity, and differentiability of real functions. The Riemann integral and the Fundamental Theorem of Calculus will be developed rigorously. Sequences and series of real functions will also be discussed. Prerequisite(s): MTH 252 and MTH 290
Course Offered: Spring
Credits: Credits:4 (4,0)

MTH 355 Principles of Complex Analysis
This course will concentrate on the algebraic and analytic properties of complex numbers and functions of a single complex variables. The concepts of limits, continuity and differentiability will be extended to the complex domain. Line integrals and Cauchy's Integral Theorem will be presented. The expansion of analytic functions in Taylor and Laurent series will be derived and residue theory will be introduced. Prerequisite(s): MTH 252 and MTH 290
Credits: Credits:3 (3,0)

MTH 356 Integrated Topics in Math and Physics
This is an integrated math-physics course with applications to topics in physics and the engineering technologies. It is meant to be interdisciplinary in nature and directed toward students in the Bachelor of Technology and Applied Mathematics programs. Topics to be covered include: Vector Algebra, Vector Calculus, Scalar and Vector Field Theory, Fourier Series, Fourier Integral, Fourier Transforms and Laplace Transforms. The focus will be on application and integration of mathematics methods to physics and engineering technologies. Note: Students completing this course may not receive credit for PHY 356. Prerequisite(s): MTH 236 or MTH 252 and PHY 136 or PHY 144
Credits: Credits:3 (3,0)

MTH 360 Applied Probability and Statistics
In this course, we study applications of probability distributions and statistical inference. Topics are chosen from statistical parameters, continuous and discrete random variables, probability and sampling distributions, confidence intervals, hypothesis testing, regression analysis, and analysis of variance. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

MTH 365 Vector Calculus
The course begins with a detailed development of vector algebra in two- and three- dimensions. Also covered will be differentiation and integration of scalar and vector valued functions of vectors. Vector fields will be discussed with particular attention to line and surface integrals. Important vector theorems such as Green's, Stokes' and the divergence theorem and their important applications will be presented. A discussion of the Fourier series and the Fourier integral will complete the course. Prerequisite(s): MTH 245 and MTH 252
Credits: Credits:3 (3,0)

MTH 370 Numerical Methods
This is an introductory elective course for Applied Mathematics students. Topics include solutions of nonlinear equations, interpolation and approximation of functions, numerical differentiation and integration, iterative techniques in Linear Algebra and others. Solutions of problems using computer will be an integral part of this course. Prerequisite(s): MTH 245 or permission from the department
Course Offered: Fall
Credits: Credits:3 (3,0)

MTH 380 Experimental Design
This course will provide an overview of the practical and theoretical foundations of experimental design as applied in real-life situations. Topics discussed include ANOVA, randomized block design, Latin square design, factorial and fractional factorial designs, and response surface methods. Prerequisite(s): MTH 110 or BUS 240 or MTH 360 or permission from the department
Course Offered: Spring
Credits: Credits:3 (3,0)

MTH 385 Applied Partial Differential Equations
This course is an introduction to partial differential equations. Topics include introduction to heat, wave, and Laplace equations, Fourier series, numerical methods, applications. Use of an appropriate computer packages is an integral part of the course. Prerequisite(s): MTH 253
Credits: Credits:3 (3,0)

MTH 390 Methods in Operations Research
This course is intended to focus on understanding, formulating and solving deterministic models in operations research. Maximum and Minimum Linear Programming problems will be studied graphically and theoretically. The Simplex Method, Sensitivity Analysis and Duality will be covered and an in-depth analysis of the reasoning on which these topics are based will be given. Instruction in computer software techniques will be presented to solve Linear Programming problems, using the simplex method and sensitivity analysis. Transportation Problems, Integer Programming, or Markov Chains will be covered. In order to enhance quantitative reasoning, the course emphasizes the formulation of mathematical models commonly used by operation research analysts, as well as the theoretical and computer software solutions to these models. Prerequisite(s): MTH 130 or MTH 150
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

MTH 405 Seminar in Applied Mathematics
This is a capstone course for Applied Mathematics students. Students will work on a major project taken from business, industry or government agency. Students will have to present their results both orally and in writing. The completed report must meet a standard that is acceptable to the business community. Students may work in teams or individually. They will report on their progress as part of the seminar. This course may be taken twice for academic credit. Prerequisite(s): MTH 354
Course Offered: Spring
Credits: Credits:3 (3,0)

MTH 420 Statistical Data Mining
This course provides an introduction to statistical learning techniques designed for the analysis of high-dimensional data. Topics covered include techniques for exploring and visualizing data, general linear models and generalized linear models, classification, model assessment, decision trees, and principal components analysis. Prerequisite(s): MTH 360 or permission from the department
Course Offered: Fall
Credits: Credits:3 (3,0)

MTH 445 Linear Algebra II
This course is a continuation of MTH245. Topics include further study of eigenvalues and eigenvectors; inner product spaces, orthogonality, least squares problems, symmetric matrices, diagonalization, quadratic forms and the singular value decomposition. Applications to Markov chains, constrained optimization, differential equations, statistics, and image processing, among others, will be shown. Prerequisite(s): MTH 245
Credits: Credits:3 (3,0)

MTH 446 Financial Engineering
This course will use advanced mathematical and computational techniques to solve real-world problems in quantitative finance. Topics will include optimal asset-liability matching, yield curve construction, option valuation, hedging and strategies, portfolio analysis, and risk management. Coursework will emphasize the integration of topics from calculus, linear algebra, and probability with financial theory and applications. Students will develop computational skills using application software such as Excel and MATLAB. Prerequisite(s): MTH 346
Course Offered: Fall
Credits: Credits:3 (3,0)

MTH 460 Applied Probability and Statistics II
A continuation of MTH 360. Topics chosen from hypothesis testing; sampling distributions; analysis of variance and covariance; nonparametric techniques; probability distributions; multivariate techniques. Prerequisite(s): MTH 360
Credits: Credits:3 (3,0)

MTH 470 Problem Solving Seminar
This is a course where students work on a variety of open-ended, real-world problems emerging from applied sciences and engineering. Students also work on a research project under the guidance of the instructor and

report their results (or partial results). Collaborative work and effective communication through oral presentations and written reports will be stressed. Mathematical modeling, analytical, and numerical methods will be utilized to formulate and solve the problems. Prerequisite(s): MTH 370 or permission from the department
Course Offered: Spring
Credits: Credits:3 (3,0)

MTH 490 Special Topics in Applied Mathematics
Lectures in applied mathematics that may introduce topics not covered in the Applied Mathematics curriculum or may expand upon the content of existing courses. These topics vary from year to year, and the specific description of the content of each course will be publicized in advance by the department. Examples of such topics are computational linear algebra, applied optimization, dynamical modeling, financial mathematics, etc. Prerequisite(s): MTH 245 and MTH 252
Credits: Credits:3 (3,0)

MUSIC (MUS)

MUS 108 Survey of Western Music
This course will introduce students to music from Ancient Greek times to present. The course will also allow students to appreciate music in relation to the other arts, to other cultures, and to historical events.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

NUTRITION SCIENCE (NTR)

NTR 110 Introduction to Nutrition Science
This course stresses the practical application of nutritional science throughout life. It discusses nutritional changes that occur during various life stages such as pregnancy, infancy, adolescence, adulthood, and old age. Students explore the biological aspect of all major nutrients and relate them to chronic diseases. Basic chemistry principles are applied to major nutrient groups. Recommendations for adequate nutrient intake are presented and related to food consumption habits. This course evaluates nutritional supplement claims and discusses changes in athlete nutrient requirements in training and during competition. Note: Students who receive credit for BIO 125 may not receive credit for NTR 110.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

NTR 111L Nutrition Science Laboratory
This laboratory course complements the lecture portion of Introduction to Nutrition {NTR 110). Students engage in hands-on nutrition related clinical experiments and demonstrations to better understand the principles of nutrition, digestion, metabolism, and food science. The course emphasizes the scientific methods of analyzing food, understanding nutrient composition, and evaluating dietary intake. NOTE: NTR 110 can be taken either as a prerequisite or corequisite. Prerequisite(s): NTR 110 Credit: 1
Credits: Credits:1 (0,3)

NTR 150 Quantity Food Production
This course provides experience in food preparation and science. It provides relevant information and training on standard commercial and institutional food preparation. Students will be capable of classifying and preparing sauces, thickening agents, and sauce families. They will examine production methods, finishing techniques, and food safety methods. This class includes lecture, demonstration, and lab opportunities to apply knowledge and skills in food preparation. The course will require integration of scientific principles and the use of problem-solving skills to address a specific project development objective from concept to finish. Prerequisite(s): NTR 110 or BIO 125 Corequisite(s): NTR 150L
Course Offered: Fall
Credits: Credits:4 (3,2)

NTR 200 Food Science
Food Science integrates an interdisciplinary science approach to food and its components. Relationships between the chemical composition of food and sensory properties are delineated. In this course students evaluate the effects of processing, preparation, and storage on the quality, safety, and nutritive value of various food categories. Further, this course examines the application of technology to both improve and expand the food supply. Food science applies concepts from nutrition, health, biology, and chemistry to discriminate how the various ingredients in foods interact. Laboratory testing and food science techniques specific to the science of food are explored. The course, NTR 200L, is a part of the grade for this course. Prerequisite(s): NTR 110 or BIO 125 Corequisite(s): NTR 200L
Course Offered: Spring
Credits: Credits:4 (3,2)

NTR 210 Food Technology
This course develops skills, knowledge and understanding about the food we eat. It applies food science principles to the technology of food selection, preservation, processing, packaging, engineering, distribution as well as food toxicology and safety issues. Students will review the way companies are meeting government, and industry standards. Discussion will cover specific minimal thermal and non-thermal technology requirements of various processed and functional foods (value beyond basic nutrition). Practical skills in food experimenting and food structural properties are integrated throughout the course.
Credits: Credits:3 (3,0)

NTR 300 Cultural Foods
This course is designed to examine the fundamental truths that govern human behavior around food choices and food selection. Students will look at the symbolic value and meaning of food, and will scrutinize the relationship of food cultures to consumer behavior. Students will explore the historical development of and current food cultures in Europe, Asia, Africa, the Middle East, and the Americas. Further, this course will explore the impact of food and food choices/preparation on nutritional status and health. Prerequisite(s): NTR 110 or BIO 125 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 305 Weight Management & Obesity
This course will examine the genetic and social determinants of a person's body weight and composition. Factors such as eating patterns, exercise amounts, and employment caloric expenditure will be explored. Lectures will separate fact from popular diet fiction. Students will examine weight loss and maintenance through evaluation and examination of current research data and compare and contrast fad diets and practices. Instruction is included on using epidemiology as a tool to understand and help prevent disease caused by excess weight in the United States population. Prerequisite(s): BIO 130 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 310 Food Service Management
This course explores the organization and administration of food service systems. It covers the functions and responsibilities related to the management of menus, facility efficiency and state regulations. The course will cover leadership strategies related to food production, planning, site design, marketing, human resource management and cost accounting as they relate to equipment, food, and labor. Discussion includes food sanitation and safety, with emphasis on supervision skills. Prerequisite(s): (NTR 110 or BIO 125) and Junior-Level status
Course Offered: Fall
Credits: Credits:3 (3,0)

NTR 320 Medical Nutrition Therapy
This course explores current clinical nutrition practice in various disease states. Students develop knowledge and skill in dietary assessment and apply the appropriate medical nutrition therapies and dietary assessment methodologies while developing familiarity with medical terminology and practices. Students construct dietary intervention/modification protocols using food and dietary intake to meet dietary prescriptions and implement these protocols in diverse cultural groups. They use a biological science foundation to follow existing evidence-based guidelines and protocols to implement nutrition interventions and predict outcomes. Attention is placed on development of dietary practices to prevent and/or ameliorate diseases such as food allergy, obesity, heart disease, and cancer. Prerequisite(s): (BIO 125 or NTR 110) and (BIO 170 and BIO 171) and Junior-Level status. Corequisite(s): NTR 320L
Course Offered: Fall
Credits: Credits:4 (3,2)

NTR 325 Nutrition Through Life Cycle
This course explores nutrition needs throughout various stages of the life cycle including pregnancy and lactation, infancy, adolescence, and aging. People require similar nutrients throughout their life, however the amount

and ratio of specific nutrients varies according to their age. Students will evaluate the relationship among nutrition, physical growth, activity, and disease on the human body. Socioeconomic and cultural influences will be addressed at each stage of life. Students will further explore psychological/behavioral influences on food and nutrition behavior through the life span. Prerequisite(s):BIO 170, BIO 171 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 330 Food Microbiology
This course is structured to give students an appreciation of the role of microorganisms in food processing, preservation and production. Topics covered relate various microorganisms to food spoilage and foodborne illness by genus and species. Microorganism differentiation in health promotion procedures is addressed at the local, state, and federal levels. Food microbiology unites the disciplines of microbiology and food technology. This course extrapolates industrial procedures, protocols and additives that aim to provide safer, longer lasting and affordable food for the world. Food microbiology covers classification and identification of microorganisms commonly associated with food and applies aspects of microorganism control to current common foodborne illness outbreaks in the United States. The laboratory course, NTR 330L, is a part of the grade for this course. Note: Students who have taken BIO 318 cannot receive credit for this course. Prerequisite(s): BIO 125 or NTR 110 and Junior-Level status Corequisite(s): NTR 330L
Course Offered: Fall
Credits: Credits:4 (3,2)

NTR 335 Nutritional Biochemistry
Nutritional biochemistry addresses the functional and structural characteristics of energy producing molecules (carbohydrates, lipids, proteins, and ethanol). The course evaluates the formulative molecular structures and nutrients involved in the major metabolic pathways of humans. Comparisons are made between normal metabolism and that found in various nutrient deficiencies. It teaches the chemistry of rate limiting steps and nitrogenous bases involved in transcription and translation at a cellular level. Prerequisite(s): CHM 260 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 340 Nutrition Communication
This course takes previous nutrition knowledge and effectively develops skills to transfer that information to professional peers, clients, patients, employees, and the public. Efficient communication of complex and difficult nutrition and health information is practiced to improve interpersonal skills. Students will participate in verbal and written communication drills using techniques essential to communication for supporting positive behavior change. In this course students debate the development of methods for strong communication. Students compare and appreciate cultural differences in health/nutrition literacy. Note: Students cannot get credit for NTR 340 and 340W; NTR 340W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 101 and (NTR 110 or BIO 125) and Junior-Level status
Course Offered: Fall
Credits: Credits:3 (3,0)

NTR 350 Energy and Exercise
This course uses a biochemical approach to the catabolic reactions involved in human metabolic energy production. Emphasis is placed on human fuel usage, storage, and its use for energy transduction. Specific topics include the pathways by which nutrients are stored, and oxidized to provide ATP; hormonal regulation of energy balance and substrate utilization, the potential impact of physical activity, diet and physiological determinants (e.g. sex/gender, ethnicity/race) on human health, pathophysiology of obesity, insulin resistance, and other disorders related to energy metabolism, etc. Through lectures, discussion, and the reading of literature, students will critique the terms, concepts and methods in energy metabolism/exercise science. Students will learn critical thinking and evaluation skills on nutritional elements of energy production and usage. Prerequisite(s): (NTR110 or BIO125) and BIO 170, BIO 171 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 360 Experimental Foods
This course provides an experimental approach to study of physical and chemical properties of foods through recipe development, modification, and evaluation; food safety and technology; biotechnology and sensory evaluation. The science behind creating healthier foods, such as no-fat ice cream and cooking with no-calorie sugar substitutes, will be addressed. Note: The laboratory course, NTR 360L, is a part of the grade for this course. Prerequisite(s): NTR 110 or BIO 125 and Junior-Level status Corequisite(s): NTR 360L
Course Offered: Spring
Credits: Credits:3 (2,2)

NTR 365 Sports Nutrition
Course content will span basic physiology as it applies to nutrition and sport, nutrient utilization, body composition, and specific application of nutrition as well as dietary coaching for different sports in training/competition. This course will discuss optimal performance and endurance in various sports. Lectures will cover proper hydration, increased calorie and nutrient needs in athletics. The course also identifies appropriateness of supplements and ergogenic aids by understanding their methodologies with examination of scientific research validity. Prerequisite(s): NTR 110 or BIO 125 and Junior-Level status
Course Offered: Fall
Credits: Credits:3 (3,0)

NTR 405 Supplements and Ergogenic Aids
This course addresses caffeine and other herbal stimulants as a means to weight management and improved athletic performance. Americans currently spend billions of dollars a year on weight-loss supplements in pill form with limited government supervision because natural supplements are not considered drugs. Course work includes in-depth examination of the science behind the supplement industry and their promotions for health and well-being. This multifaceted industry is delineated from product purchasing, additives, purification, production, marketing, distributing and quality control. Holistic and integrative sales approaches are examined against empirical research findings. Past major ergogenic aid trends and fads are examined for effectiveness and safety. Prerequisite(s): NTR 320
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 410 Macronutrient Metabolism
This course offers an in-depth examination of the biochemistry involved in human nutrition and metabolism. Macronutrient nutrition focus is on the role of biological energy production, fuel usage and storage. Additionally, protein's role in immunity, cell repair, and cell maintenance is examined at a molecular level. Emphasis is placed on the interrelationships of nutrients to catabolic and anabolic metabolism within biochemistry and human physiology. This is especially true for discussion metabolic states involving obesity and physical exercise. The course will reflect upon, examine and discuss current research related to nutrition and claims about alterations in metabolism. Prerequisite(s): NTR 335
Course Offered: Fall
Credits: Credits:3 (3,0)

NTR 411 Micronutrient Metabolism
This is an advanced course in the biochemistry and physiology of micronutrients. Students are expected to be familiar with introductory nutrition material as well as biochemistry, and have a basic familiarity with physiology. This course covers fat soluble nutrients, water soluble nutrients, and minerals. Topics include nutrient digestion, absorption, transport, storage, and function in biochemical activity. This course will evaluate mineral and vitamin interactions and discuss health implications of varying amounts of vitamins and minerals in the diet. Prerequisite(s): NTR 335 and NTR 410
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 420 Community Nutrition
This course provides students with the tools for developing community nutrition interventions. Students will learn about utilizing behavioral theory, conducting needs assessments, writing program objectives, developing intervention strategies, evaluating program implementation and effectiveness, planning a budget, and writing grant proposals. Students pick projects based on personal interest and work as individuals and in small groups. Further course topics include public health initiatives to increase fruit and vegetable intake, obesity prevention, school lunch nutrition, and availability of healthy foods to "at risk" populations. NOTE: Students cannot earn credit for NTR 420 and NTR 420*D NTR 420*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): NTR 325 and Junior -Level status
Course Offered: Fall

Credits: Credits:3 (3,0)

NTR 425 Nutrition Science Seminar
This course provides students with the opportunity to gain experience in organization of material, dissemination of library/original research, and communication skills in nutrition and dietetic sciences. The course examines current issues and controversies in food, nutrition, and dietetics. Guest speakers will be scheduled to enrich student and faculty exposure to a variety of topics from their specific discipline, in their area of expertise. Note: Students cannot get credit for NTR 425 and 425W; NTR 425W can be used to fulfill the writing intensive requirement. Prerequisite(s): NTR 335 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 430 Clinical Nutrition Assessment
This course presents the principles and practice of scientifically based clinical nutrition. Topic discussions include: nutritional assessment, nutritional implications of the physical exam, laboratory studies, macronutrients, micronutrients, phytonutrients, enzymes, and other factors. Growth, development and maintenance are discussed with emphasis on nutritional interventions and redesigning nutritional care plans. Prerequisite(s): NTR 320 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 450 Research Methods in Nutrition Sciences
This course introduces the principles of research methodology as relevant to nutrition sciences. It examines the context of research in professional practice in the healthcare field, and will equip students with the basic research skills necessary for their continuing professional education. The course content considers concepts in both qualitative and quantitative research methodology, the critical appraisal of literature in science and healthcare, and includes basic statistical concepts and methods. Prerequisite(s): NTR 320 and Junior-Level status
Course Offered: Spring
Credits: Credits:3 (3,0)

NTR 460 Nutrition Field Experience
In this course students have the opportunity to gain hands-on experience in a professional setting. The course is oriented towards professional development that builds skills and abilities related to job-seeking, and career. Its focus is on development of professional tools including portfolios, resumes, interviewing skills, and relevant certifications. The field experience is individualized based on the career interests of the student and the specific needs of the organization. Field experience proposals must be presented and approved prior to registration for the course. Prerequisite(s): NTR 320, Junior-Level status and permission of the department
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

NURSING (NUR)

NUR 095 Clinical Skills Update
A mandatory 30 hour non-credit unit course for nursing students who have interrupted their nursing study. Instruction will be provided in the lab and clinic area. Non-credit units/offered Intersession and Summer. Course grade will not be computed in GPA.
Course Offered: Winter, Summer
Credits: Credits:1 (0,2)

NUR 100 Health Assessment
This course will enable students to acquire skill in obtaining a health history and in performing physical examinations. Emphasis will be on identification of normal physical characteristics, common variations, and beginning skills in detecting deviations from normal. Students are given the opportunity to demonstrate beginning skills in the nursing laboratory, and apply these skills to the clinical setting to provide holistic care to individuals and families. Prerequisite(s): BIO 171 with a grade of B or higher Corequisite(s): NUR 100L and NUR 114T, NUR 114L, NUR 114H, NUR 114S
Course Offered: Fall, Spring
Credits: Credits:3 (2,3)

NUR 114 Clinical and Theoretical Foundations of Baccalaureate Nursing Practice
This course provides an introduction to nursing and patient care concepts, emphasizing the knowledge, skills and attitudes needed to provide safe, high quality care to individuals, families and communities within a multicultural environment. The theoretical foundation for professional nursing behaviors, evidence-based practice, and patient-centered care are explored within the context of various health care environments, delivery systems, and inter-disciplinary teams. Concepts of caring, critical thinking, communication, and the role of the professional nurse as provider of care, manager of care, and member of a profession are integrated throughout the course as a framework for presentation of the essential components of generalist baccalaureate nursing practice. Students are given the opportunity to demonstrate beginning skills in the nursing and simulation laboratory, and apply these skills in the clinical setting to provide holistic care that promotes optimum wellbeing to individuals and families. To continue in the nursing program the student must maintain a grade of C+ (77) or higher. Prerequisite(s): BIO 170 and BIO 171 with a grade of B or higher Corequisite(s): NUR 114H, 114L, 114S, NUR 100, 100L
Course Offered: Fall, Spring
Credits: Credits:8 (3,7,9)

NUR 205 Art of Nursing in Professional Practice
This course provides an in-depth exploration of the artistry of professional nursing for the practicing registered nurse. The theories of caring, the importance of self-care, the mind-body connection, and the value of the nurse's presence in today's healthcare system will be explored. The concepts of self-care assessment and intervention will be practiced through reflection and dialogue within an environment of supportive peers and faculty. Other concepts .including mindfulness, movement, and personal creativity will be discussed. The evidence supporting the use of therapeutic modalities such as humor, music, and touch will be evaluated for inclusion in a nursing plan of care. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course.
Credits: Credits:3 (3,0)

NUR 206 The Art of Nursing
This course explores the artistry of professional nursing. The theories of caring, the importance of self-care, the mind-body connection, and the value of the nurse's presence in today's healthcare system will be explored. The concepts of self-care assessment and intervention will be practiced through reflection and dialogue within an environment of supportive peers and faculty. Other concepts including mindfulness, movement, and personal creativity will be discussed. The evidence supporting the use of therapeutic modalities such as humor, music, and touch will be evaluated for inclusion in a nursing plan of care. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course.
Credits: Credits:2 (2,0)

NUR 215W Developing Nurses' Ways of Knowing (Writing Intensive)
This course presents an overview of nursing as a professional, scholarly discipline, which is an essential part of healthcare. Topics discussed include ways of knowing in nursing, specifically theoretical/empirical, ethical, personal, esthetic, intuitive, and sociopolitical knowing. There is also emphasis on developing ideas about related topics such as historical and social factors, reflective practice, nursing concepts, learning, nursing theory, skills acquisition, and evidence for practice that provide foundations for current professional nursing practice. This is a writing intensive course. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course.. Note: Offered at the discretion of the Nursing Department Prerequisite(s): EGL 101 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

NUR 217 Care of Individuals Experiencing Acute Health Challenges
This course focuses on the experiences of individuals/families with acute health challenges within a multicultural society. The student will be introduced to concepts and skills common in the care of patients with acute health challenges. Emphasis is placed on the nursing process and clinical decision making. The student will examine essential concepts and issues related to acute health challenges from different viewpoints. Throughout this course the student continues to develop self-awareness, professionalism, and the knowledge, skills, and attitudes necessary to practice nursing in a caring, non-judgmental manner in an increasingly complex health care system. Opportunities for application of these concepts are provided in various health care settings. To continue in the

nursing program, the student must maintain a grade of C+ (77) or higher in this course. Prerequisite(s): NUR 100, NUR 114 with a grade of C+ or higher. Corequisite(s): NUR 217H
Course Offered: Fall, Spring
Credits: Credits:6 (3,0,9)

NUR 240 Nursing Beyond Borders
This three credit elective course will provide an overview on a number of topics related to global health in today's world. Topics will include essential concepts related to providing compassionate care to clients from different cultures, health care access from a global perspective, prevention of disease and the maintenance of health. Any 100 level clinical course in dental hygiene, nursing, or medical laboratory technology or other related health professions.
Credits: Credits:3 (3,0)

NUR 301 Caring for Populations in the Community Setting
This course focuses on the role of the nurse in the community working with individuals, families, groups and high-risk populations in a variety of community settings. Caring for individuals across the lifespan including their families and the communities in which they live is emphasized recognizing physical, psychological, behavioral, social and cultural needs. Evidence-based clinical concepts are incorporated as a basis for providing interventions for families and groups with multiple and complex health stressors within a population/public health framework. Opportunities for application of these concepts are provided in various health care settings. This course is for RN Completion students. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course. Prerequisite(s): NUR 215W and (NUR 205 or NUR 206) with a grade of C+ or higher Corequisite(s): NUR 301H
Course Offered: Spring
Credits: Credits:4 (3,0,4)

NUR 302 Pathophysiology
In this course students will examine normal body structure and function as well as concepts related to physiologic deviations that contribute to disease or that occur as a result of a disease, incorporating knowledge from the sciences as a foundation for provision of holistic, patient-centered care. Physiologic changes in body systems that lead to health problems across the lifespan will be addressed in the context of evidence-based research and clinical decision making. To continue in the program a student must maintain a grade of C+ (77 %) or better in this course. Prerequisite(s): NUR 217 with a grade of C+ or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

NUR 305 Health Promotion and Patient Education
This course combines the critical review of health promotion strategies and the framework for designing successful patient teaching tools. Students will be introduced to the major concepts of health promotion and the issues that impact upon health and wellness. In order to better understand the global impact of health upon our society, students will research various agencies that support health promotion and review their health care agendas. The second component of the course will be an introduction to the role of the nurse as an educator and the identification of barriers to learning will be explored. Methods to develop effective evidenced based teaching plans will also be covered. To continue in the nursing department you must maintain a grade of C+ (77) or higher in this course. Prerequisite(s): NUR 215W and NUR 216 with a grade of C+ or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

NUR 307 Nursing Care of Children and the Child Bearing Family
This course builds on the concepts of previous courses with emphasis on the application of the nursing process and the development of critical thinking skills in focusing on health during the childbearing years, antepartum, intrapartum, postpartum, and the health of infants and children through adolescence. Students will explore the concepts of health promotion, disease prevention, evidence-based health practice, and alterations in health related to patients and families. Emphasis is on common health issues related to maternal-newborn and pediatric specific content. Nursing management and planning will include concepts from culturally diverse settings. Opportunities for application of these concepts are provided in various health care settings. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course. Prerequisite(s): NUR 215W, NUR 206, and NUR 217 with a grade of C + or higher. Corequisite(s): NUR 307H
Course Offered: Fall, Spring
Credits: Credits:6 (3,0,9)

NUR 308 Care of Individuals Experiencing Chronic Health Challenges
This course focuses on the experiences of individuals/families with chronic health challenges within a multicultural society. The student will be introduced to concepts and skills common in the care of patients with chronic health challenges. Emphasis is placed on the nursing process and clinical decision making. The student will examine essential concepts and issues related to chronic health challenges from different viewpoints. Throughout this course the student continues to develop self-awareness, professionalism, and the knowledge, skills and attitudes necessary to practice nursing in a caring, non-judgmental manner in an increasingly complex health care system. Opportunities for application of these concepts are provided in various health care settings. To continue in the program a student must maintain a grade of C+ (77) or higher in this course. Prerequisite(s): NUR 307 with a grade of C+ or higher. Corequisite(s): NUR 308H
Course Offered: Fall, Spring
Credits: Credits:6 (3,0,9)

NUR 312 Clinical Pharmacology in Nursing I
This course provides a foundation of basic pharmacology necessary for a nurse in general practice to establish a knowledge base that applies to patient centered care and education. Emphasis is placed on pharmacological concepts that build upon knowledge from the sciences to promote optimal well-being across the life span. Pharmacotherapeutic agents used to treat illness, and promote, maintain, and restore wellness are discussed in the context of evidence-based research, clinical judgment, and decision making. This is the first of two pharmacology courses needed to meet the requirements for graduation from the nursing program. Prerequisite(s): BIO 170 and BIO 171 with a grade of B or higher, and NUR 114 with a grade of C+ or higher. Corequisite: NUR 217
Credits: Credits:3 (3,0)

NUR 314 Clinical Pharmacology in Nursing II
NUR 314 Clinical Pharmacology in Nursing II is the second in a series of two pharmacology courses required to complete the program. This course builds upon the foundation of basic pharmacology provided in the first course NUR 312. Pharmacology is necessary for a nurse in general practice to establish a knowledge base that applies to patient centered care and education. Emphasis is placed on pharmacological concepts that build upon knowledge from the sciences to promote optimal well-being across the life span. Pharmacotherapeutic agents use to treat illness, and promote, maintain, and restore wellness are discussed in the context of evidence-based research, clinical judgment, and decision making. This is the second of two pharmacology courses needed to meet the requirements for graduation from the nursing program. Prerequisite(s): NUR 313 with a grade of C+ or higher Corequisite: NUR 308 or permission from the Chair
Credits: Credits:3 (3,0)

NUR 315 Health Care Organization
This is a survey course introducing the student to the concepts related to the organization of health care in the United States. Health care will be studied from a historical, political, economic and consumer perspective. Focus will include exploring the commonly used models of health care delivery and organization in the United States and selected other countries. Health Care in this country has undergone tremendous change and expansion since the turn of the last century. As we begin the next century many health care issues remain controversial and a top priority in the minds of many Americans. Access to adequate preventive and episodic health care, organ transplantation and gene therapy are just a few of the interesting topics that will be touched upon. To continue in the nursing department you must maintain a grade of C+ (77) or higher in this course. Note: Students who have completed or are completing HST 301 will not receive credit for NUR 315. Prerequisite(s): NUR 215W with a grade of C+ or higher.
Credits: Credits:3 (3,0)

NUR 401 Modes of Inquiry in Nursing
This course introduces the student to a comprehensive overview of the nursing research process. Research designs including qualitative, quantitative and mixed methods approaches will be examined. Concepts essential for understanding, interpreting, analyzing, and applying research to clinical nursing practice will be emphasized. Students will synthesize research evidence to enhance critical thinking and guide clinical decision-making. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course. NOTE: Students cannot get credit

for NUR 401 and NUR 401W. Prerequisite(s): Any 300 level nursing course with a grade of C+ or higher and MTH 110 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

NUR 402 Community and Mental Health Nursing
The course focuses on both mental health and illness concepts and the role of the nurse in the community working with individuals, families, groups and high-risk populations in a variety of community settings. Caring for individuals across the lifespan including their families and the communities in which they live is emphasized recognizing physical, psychological, behavioral, social and cultural needs. Evidence-based nursing research concepts are incorporated as a basis for community/public health and mental health nursing practice. These concepts focus on individuals and groups with multiple and complex health stressors that exhibit maladaptive patterns and psychiatric disorders. Resources within the global community mental health system are identified. Opportunities for application of these concepts are provided in various health care settings. This course is for pre-licensure students. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course. Prerequisite(s): NUR 308
Corequisite(s): NUR 402H
Course Offered: Fall, Spring
Credits: Credits:6 (3,0,9)

NUR 404 Nurse as Advocate and Change Agent
This course will enable students to synthesize new knowledge and develop a personal perspective on their future professional career in nursing. The current health care environment demands a nursing workforce that is theoretically sound, clinically adept, and politically aware. Topics to be discussed and explored include patient advocacy, political awareness and influence, power and oppression, institutional policy/personal goals, risk management, utilization and audit, and quality assurance. Additional topics may be added in response to new or emerging trends in nursing and health care. To continue in the nursing program the student must maintain a grade of C+ (77) or higher in this course. Prerequisite(s): NUR 401
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

NUR 405 Transition to Professional Nursing Practice
This course will allow the senior nursing student to integrate and apply knowledge from all previous courses with emphasis on preparation for NCLEX-RN success. Concepts including leadership, critical thinking, culture, spirituality, and quality improvement are applied in caring for patients, families, and communities to improve healthcare outcomes. This course reinforces the knowledge, skills, and abilities that are essential for entry-level nursing practice. Opportunities for the application of these concepts are provided in various healthcare settings. To complete this course grade of C+ (77) or higher is required. Prerequisite(s): NUR 402 with a grade of C+ or higher Corequisite(s): NUR 405H
Course Offered: Fall, Spring
Credits: Credits:6 (3,0,35)

NUR 406 Senior Leadership Practicum
This clinical preceptor course will provide a leadership experience for students enrolled in the Baccalaureate RN Completion track. Students will work with an experienced registered nurse functioning in a leadership role. Students will identify an area of interest in a health care setting and develop goals for their learning experience. The course will connect theoretical concepts to clinical practice allowing the learner to make the connection between the concept of nurse as change agent and nursing leadership. Prerequisite(s): NUR 404 with a grade of C+ or higher
Course Offered: Spring
Credits: Credits:5 (3,0,5)

NUR 500 Statistical Analysis for Evidence Based Practice
This course focuses on the understanding of statistics for application to nursing and evidence-based practice. Emphasis is placed on the interpretation of and appraisal of data analyses for the selection and use of best evidence for making practical conclusions about empirical data. Prerequisite(s): MTH 110 with a grade of C+ or higher or other 3 credit undergraduate statistics course.
Credits: Credits:3 (3,0)

NUR 501 Nursing Research and Evidence Based Practice
This course provides the graduate nursing student with the knowledge and skills necessary to engage in evidence-based practice in the health care environment. The course focuses on analysis of research and its application to practice. Students access credible sources using a systematic approach, evaluate the quality of research findings, discuss methods of translating and integrating findings into nursing practice, and evaluate outcomes. Prerequisite(s): NUR 401 with a grade of C+ or higher or other 3 Credit Undergraduate Research course.
Credits: Credits:3 (3,0)

NUR 502 Organizational Theory and Advanced Practice Roles
This foundational course for graduate nurses is designed to prepare students to explore and analyze current organizational theories and behaviors, and evidence-based research that guides effective organizational development. Emphasis is placed on concepts of organizational structure and culture, power, conflict, and change in the delivery of health care. The knowledge, skills, and attitudes needed to understand leadership styles, theories, and professional advocacy are explored within the context of the advance practice nurse role.
Credits: Credits:3 (3,0)

NUR 503 Health Policy and Current Issues
This course provides the graduate nursing student with an overview of health policy issues and the role of government in the health care system. Advanced principles of health policy are examined to provide a clear, systematic way of thinking about health care in the U.S., barriers to health care, and methods for managing these barriers. Professional issues impacting the delivery of nursing care are explored.
Credits: Credits:3 (3,0)

NUR 520 Cultural and Ethnic Diversity in Geriatrics
In this graduate level course students will examine race and ethnicity as socially stratifying forces which drive inequities in resources and health care. The dynamics of race, class, and culture in health are particularly evident among the elderly since they have been exposed to these influences for many years. This course examines the diversity among the older population in health status, health beliefs/behaviors, and health care, to explore the interaction of culture and structure as determinants of their life experiences. Attitudes and cultural values of elderly members of ethnic and minority groups are explored.
Credits: Credits:3 (3,0)

NUR 521 Health Promotion and Aging
This graduate level course introduces students to concepts of the art and science of caring for an aging population. The interface between health and aging, and how to maintain wellness in a rapidly aging population is reviewed. Theories of aging, the meaning, and myths of health in old age, and societal changes in perceptions of aging are explored. Psychological and social aspects of aging are viewed across the lifespan, with an emphasis on the uniqueness of the individual.
Credits: Credits:3 (3,0)

NUR 550 Nursing Administration Theory and Practice
This graduate course will provide the student an opportunity to explore the role of the nurse administrator within today's health care organizations. Students will examine management theory, professional ethics and policy, and legal, ethical and regulatory issues as a foundation to create a culture of excellence, quality and safety. Students will examine decision making and the role of the nurse administrator within the context of political and power structures, practice, institutional and physical environments of the organization, and external factors.
Credits: Credits:3 (3,0)

NUR 551 Hospital/Healthcare Management
This course provides the graduate student with an overview of how healthcare institutions are organized and governed, the role of the management staff, physicians, nurses and other clinical and support staff in these organizations, and the management systems designed for efficient and effective operation. Students will be introduced to the scope of responsibilities of managing a healthcare facility combining business, technical, and healthcare knowledge to administer a successful organization.
Credits: Credits:3 (3,0)

NUR 620 Healthcare Economics
This course examines the dynamic nature of health economics in addition to understanding the political process in the healthcare context. This course uses foundational economic concepts to develop heath economic applications and processes. The focus of the course is to provide the nurse administrator with a basis for understanding the fiscal status of health care

organizations. The nurse executive role in financial management, strategic planning and marketing, quality assurance and risk management initiatives for health care organizations is explored.
Credits: Credits:3 (3,0)

NUR 630 Informatics and Health Care Technology
This graduate course prepares the student to utilize informatics and health care technologies in the management of individuals, groups and organizations for the improvement of patient outcomes, and to advance public health and health-related research. Students learn the application of informatics skills and knowledge to health-related problems. Advanced leadership roles in the clinical setting related to information systems and patient care technology are addressed. The content focuses on information systems that assist in monitoring outcomes and quality improvement, patient safety, and evaluation and selection of patient care technology and consumer health information sources. Legal and ethical issues related to information systems and patient care technology will be explored.
Credits: Credits:3 (3,0)

NUR 650 Capstone Seminar
In this graduate course, students will identify an issue or problem related to nursing administration. Students will develop and complete an administrative project based on evidence, research, and practice standards. Principles of leadership and management will be critically analyzed and synthesized to address an administrative issue within the healthcare system. Prerequisite(s): NUR 500, 501, 502, 503, 520, 521, 550, and 551
Corequisite(s): NUR 660
Credits: Credits:1 (1,0)

NUR 660 Nursing Administration Practicum
This clinical practicum course will provide the student an opportunity to explore the role of the nurse administrator within today's health care organizations. Students will examine organizational structure, management theory, professional ethics, and policy, legal, ethical, and regulatory issues as a foundation to create a culture of excellence, quality, and safety. Students will examine decision making and the role of the nurse administrator within the context of political and power structures, the practice, institutional, and physical environments of the organization and external factors. Students will implement a clinical administrative project during this practicum. Pre-requisite(s): NUR 500, 501, 502, 503, 520, 521, 550, and 551 Co-requisite(s): NUR 650
Credits: Credits:4 (0,0,8)

PROFESSIONAL COMMUNICATIONS (PCM)

PCM 120 Human Communication
This foundational course introduces students to the interaction of the individual & society in context of communication. Students will examine written & oral communication principles, common communication practices, & a selection of theories that underpin this interaction. An emphasis is put on recognizing the value of diversity & authenticity in communication competence. Students also conduct a critical analysis of the impact of historical societal structures on communication outcomes. Through this broad examination of human communication students learn to evaluate written & oral communication for substance, bias, & intended effect.
Credits: Credits:3 (3,0)

PCM 201 Foundations of Professional Communications
This course is designed to introduce students to the field of Professional Communication. Students will learn about various areas of study including clear writing, effective oral presentations, as well as the role communication technologies play in today's workplace. Students will also be asked to consider the ethics of communicating in the workplace. The course will give students the opportunity to discuss and apply important concepts and theories within the field of Professional Communication. Prerequisite: PCM 120
Credits: Credits:3 (3,0)

PCM 202 Communication Technology
This is a hands-on course through which students will become acquainted with the communication technologies they will be utilizing during their studies as well as careers. The course is designed to cover both important software and applications. Therefore, it will cover basic elements and theories of document layout, image editing, interaction design, and multimedia production. Students will learn how to effectively use these communication technologies in professional contexts. Prerequisite(s): BCS 102 or BCS 160 or PCM 120 with a grade of C or higher
Credits: Credits:3 (3,0)

PCM 203 Media Literacy
In an era of complex technology developments, rapid changes in digital communications have led to the spread of misinformation and the public's distrust of the media. The wide availability of digital multimedia holds implications for many aspects of society such as culture and politics. This Media Literacy course uses conceptual and sociological approaches to analyze and illuminate the shifts in media roles, audience roles, financial models, and digital platforms. In addition, discussions on post--truth and cognitive biases provide helpful tools to become a more perceptive and thoughtful consumer of media content. Prerequisite(s): EGL 102 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 204 Survey of Communication Industries
This course is designed to. give students an introduction to the development and current state of communication industries. The history and significance of industries such as mass media, digital media, advertising, and public relations will be covered in the course. Students will also learn of the employment opportunities available in these industries and how their course of study prepares them for these careers. Note: Students cannot earn credit for PCM 204 and PCM 204W Prerequisite(s): PCM 120 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 211 Writing for Electronic Media
Writing for Electronic Media will give students an overview of the issues concerning electronic media, including legal and ethical concerns. Students will learn how to write for electronic media using the appropriate writing strategies and industry-standard programs. This course is equivalent to PCM 311. You cannot get credit for PCM 211 if you have taken PCM 311. Prerequisite(s): PCM 120 or EGL 102 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 305 Media in Communications
Students will apply the Microsoft Office skills which they have acquired to the creation of a number of real world professional communication documents and presentations. Students in the Professional Communications program must use Office applications effectively, carefully considering the purpose, function, audience, and venue of individual projects. This upper division course provides a range of assignments that reflect real world writing and speaking projects. Prerequisite(s): EGL 102 and junior level status
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PCM 313W Communication Theory (Writing Intensive)
This course is designed to provide an overview of the complete process of professional communication from clarification of the problem to the presentation to the final product. The elements of communication theory are covered, as well as the criteria by which to judge the adequacies of existing theories and the techniques for developing new ones. Students will have the opportunity to work with actual communications issues within industry and present their findings in a written, oral, or visual format. This is a writing-intensive course. Prerequisite(s): EGL 101 and EGL 102 with a grade of C or higher.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PCM 315 Research Techniques
In this course students are introduced to information science, bibliographic practices, and research methods appropriate to finding, evaluating, and incorporating into documents both online and hard copy data and graphics. Students complete several research projects. Prerequisite(s): Upper division standing or permission of department chair.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PCM 320 Communications in Business
In this course students learn to compose business documents including correspondence, directives, proposals, persuasive and informative memos, and researched, analytical reports. The course emphasizes electronic research as well as professional prose style, oral presentation, and page

formatting. Prerequisite(s): Junior level status or permission of department chair.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PCM 323 Strategic Writing & Editing
In this course, students develop clean, concise, and precise prose style and master the use of professional symbols and techniques of editing in both hard copy and electronic formats. Students develop these skills in their own writing projects, those of fellow students, and those of other amateur and professional writers. This course includes the study of research, citation, and bibliographic formats for print and electronic sources. This course is equivalent to PCM 328. You cannot get credit for PCM 323 if you have taken PCM 328. Prerequisite(s): PCM 201 or PCM 203 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 324 Technical Communications
A practicum in which students produce a variety of business oriented and technical documents. This course provides students with a survey of current practices and techniques appropriate to writing for forums, especially for technical journals, newspapers, and magazines. It is also designed to make students proficient at writing professional articles and reports such as new product information sheets, technical correspondence, periodic reports, summaries, process and technical descriptions, instructions and analysis, and to allow students to incorporate graphs, tables and other illustrative matter with textual content. NOTE: Students cannot get credit for PCM 324 and PCM 324W. Prerequisite(s): Upper division standing or permission of department chair.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PCM 326 Sport Writing
In this course students will learn skills in the identification of legitimate angles for sport stories, how to report sport events, develop sport feature stories, and write sport opinion pieces, both for print publication and the web. Students will submit written articles, be required to write on deadline, and develop skills on interviewing. Students will deconstruct published stories and acquire an understanding of the process of assembling a well researched and expertly crafted sport story. Note: Students completing this course may not receive credit for SMT 326. Prerequisite(s): EGL 102
Credits: Credits:3 (3,0)

PCM 327 Rhetoric and Persuasion
This course familiarizes students with the theory and practice of rhetoric with a focus on utilizing rhetorical principles in contemporary professional communications settings. Students will construct and defend different types of arguments by determining opportune contexts, styles, and types of proof. They will also analyze arguments made via various media. NOTE: Students cannot get credit for PCM 327 and PCM 327W. Prerequisite(s): PCM 201 or PCM 203 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 329 Legal Writing and Analysis
PCM 329 is a course in which the student will learn the skills necessary to produce legal writing and analysis. Students will study current practices and contemporary models of legal writing, as well as legal research and the legal system. Students will compose various documents for discussion, review, and revision. A research project/appellate brief is required, which will include an oral presentation to the class. Prerequisite(s): EGL 102
Credits: Credits:3 (3,0)

PCM 333 Organizational Communication
This course provides an overview of theories and practices of management and communication. The focus is on how communication operates in organizations, the effects of communication on organizational life, and how communication can be made more efficient and effective in meeting personal as well as organizational goals. Students will apply their knowledge to real-world Professional Communication phenomena utilizing a case-study approach. This combination of theory and application develops knowledge and skills necessary for success in corporate communication environments. Prerequisite(s): PCM 201 or PCM 203 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 334 Culture and Communication
During this course, students explore and analyze the various ways culture and communications are interrelated. Specifically, the course is designed to help students become more effective communicators in the multi-cultural world in which they live and work. To achieve this goal, students will study various theories about the relationship between culture and communication and apply these theories to solving real world problems that they may confront in communicating with people from other cultures. This course is equivalent to PCM 426. You cannot credit for PCM 334 if you have taken PCM 426. Prerequisite(s): PCM 201 or PCM 203 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 335 Strategic Communication
This course will survey different arenas and practices of corporate communication — not only in the world of business, but also the effect on all of global society — to motivate, persuade and inform its various constituencies. The course encompasses basic concepts of public affairs, investor relations, community engagement, and governmental relations to integrate the insights of practicing corporate communication professionals with the concepts and academic approaches of communication theory Ultimately, students will have a broad understanding of the different roles and functions involved in strategic corporate communications within contemporary global society. Prerequisite(s): Any 200-level EGL or PCM course with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 340 Special Topics in Professional Communications
Courses that range from 340-345 are special topics courses at the junior level. Students will learn the skills necessary to write in a particular genre or type required in a particular professional setting. Students will study current practices and contemporary models and will compose several thoroughly researched documents in this genre for discussion, review, and revision. Note: Students cannot get credit for PCM 340 and 340W; PCM 340W can be used to fulfill the writing intensive requirement. Prerequisite(s): EGL 102 with a grade of C or higher and Junior Level status
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PCM 341 Special Topics in Professional Communications
Courses that range from 340-345 are special topics courses at the junior level. Students will learn the skills necessary to write in a particular genre or type required in a particular professional setting. Students will study current practices and contemporary models and will compose several thoroughly researched documents in this genre for discussion, review, and revision. Prerequisite(s): EGL 102 with a grade of C or higher and Junior Level status
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PCM 342 Special Topics in Professional Communications
Courses that range from 340-345 are special topics courses at the junior level. Students will learn the skills necessary to write in a particular genre or type required in a particular professional setting. Students will study current practices and contemporary models and will compose several thoroughly researched documents in this genre for discussion, review, and revision. Prerequisite(s): EGL 102 with a grade of C or higher and Junior Level status
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PCM 343 Special Topics in Professional Communications
Courses that range from 340-345 are special topics courses at the junior level. Students will learn the skills necessary to write in a particular genre or type required in a particular professional setting. Students will study current practices and contemporary models and will compose several thoroughly researched documents in this genre for discussion, review, and revision. Prerequisite(s): EGL 102 with a grade of C or higher and Junior Level status
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PCM 344 Special Topics in Professional Communications
Courses that range from 340-345 are special topics courses at the junior level. Students will learn the skills necessary to write in a particular genre or type required in a particular professional setting. Students will study current practices and contemporary models and will compose several thoroughly researched documents in this genre for discussion, review, and revision. Prerequisite(s): EGL 102 with a grade of C or higher and Junior Level status
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PCM 345 Special Topics in Professional Communications
Courses that range from 340-345 are special topics courses at the junior level. Students will learn the skills necessary to write in a particular genre or type required in a particular professional setting. Students will study current practices and contemporary models and will compose several thoroughly researched documents in this genre for discussion, review, and revision. Prerequisite(s): EGL 102 with a grade of C or higher and Junior Level status
Credits: Credits:3 (3,0)

PCM 410 Digital Media Production
This course introduces students to advanced concepts in producing content for various digital media. Emphasis will be placed on the adoption and application of cutting-edge production applications to create customer-facing digital assets. Assignments include TV commercials, videos for social media, and photo essays. Prerequisite(s): Junior level status and PCM 201 or PCM 203 or VIS 225 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 411 Social Media Management
Social Media has permeated every aspect of organizational life, from HR management, to virtual meetings, to customer support. In this course, students will learn the implementation and management of social media strategies in organizations. Students will examine the most important social media platforms and the various uses of these· platforms. Through case studies, assignments, and lectures, students will learn to make strategic decisions-based research grounded in the needs of the organization and its stakeholders. Prerequisite(s): Junior Status and and PCM 323 or PCM 323W with a grade of C or higher
Credits: Credits:3 (3,0)

PCM 412 Storytelling with Data
In this course students examine and utilize the storytelling power of data. Students will examine the role data plays in communicating information with particular attention paid to professional communication settings. Students will learn to use data as a powerful narrative technique, as well as how to effectively communicate insights to different types of audiences. This is not a course in how to create data visualizations. Prerequisite(s): PCM 315 and PCM 327 with a grade of C or higher
Credits: Credits:3 (3,0)

PCM 414 Digital Journalism
This Digital Journalism course strengthens the theoretical knowledge of the contemporary communications world, raises core aspects of media professionalism and ethics, and introduces activities that merge philosophical concepts with practical skill applications. Upon the successful completion of this course, students will be prepared to delve deeper into specialized media studies and projects, work in internships, and apply for entry-level communication positions in various industries. Prerequisite(s): PCM 323 with a grade of C or higher
Credits: Credits:3 (3,0)

PCM 416 Health Communication
In this course students will become acquainted with a variety of health and science writing genres. The course will cover the principles of creating effective written content for lay and specialist audiences. Students will learn to produce engaging and clear health and science stories, blog posts, press releases, social media posts, and job application materials. Students will also be required to write a medical case report using AMA citation style. This course is equivalent to PCM 325. You cannot credit for PCM 416 if you have taken PCM 325. Prerequisite(s): Junior level Status or PCM 201 with a grade of C or higher
Credits: Credits:3 (3,0)

PCM 417 Communication Campaign Development
The goal of this course is to examine the practice of strategic communication through traditional and new media for the purpose of benefitting both profit and non-profit organizations or bringing about social change. In the process, students will apply this knowledge for the benefit of a real-world client. Throughout the semester, each student will work with a team and use research to answer their client's questions and provide recommendations. The final product will be presented to their clients. Students taking this course cannot receive credit for VIS 346. Prerequisite(s): PCM 201 or PCM 203 with a grade of C or higher.
Credits: Credits:3 (3,0)

PCM 418 Communications and Conflict Management
This course provides the tools, techniques, and skills needed to build your influence and communication capacities in order to connect and resonate with teams and stakeholders. This course is designed for individuals interested in learning more about the art and science of influence in organizations. The class materials also cover important topics for successful conflict management: effects of culture and subculture, as well as application of diverse reconciliation methods to conflict resolution. The objectives of this course include: a) to have you see the world differently - to change what you notice and think about and how you apprehend the world around you - and b) to also change what you do as you navigate through that world. You will examine the context of the individual, team, organization, and society as a whole, enabling you to identify where effective communication can be applied to achieve high impact and influence. Prerequisite(s): Any 200 or 300 level PCM course with a grade of C or higher
Credits: Credits:3 (3,0)

PCM 420 Advanced Technical Communications
Students learn advanced techniques in composing reports, technical papers, oral presentations, business communication, and press releases. Students evaluate classical and contemporary theories of rhetoric and apply them to their own writing as well as the writing of others. Prerequisite(s): Junior level status or permission of department chairperson.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PCM 425 Documentation Procedures
Students learn to write instructions and explain processes in professional documents. They review style, editing, desktop publishing skills, and the overarching importance of attention to audience, purpose, and task. Prerequisite(s): Permission of department chair or PCM 328 and VIS 242.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PCM 428 Grant Writing
This course is an intensive study designed to provide a complete overview of the grant writing process. Students will learn to research funding sources, write proposals, and negotiate with funding sources. Required assignments include searching for funding agencies, using various courses, and working in groups to complete a sample grant proposal. Students will locate funding sources and complete a grant proposal. Prerequisite(s): EGL 101 and 102
Credits: Credits:3 (3,0)

PCM 430 Special Topics in Professional Communications
This course will cover specialized content across a broad range of potential Professional Communications subjects. Students will engage in critical inquiry, examination of current theory and practices, and authoring original communications. Prerequisite(s): PCM 313(W), PCM 315 and PCM 324 with a C or higher and Junior Level Standing
Credits: Credits:3 (3,0)

PCM 431 Special Topics in Professional Communications
This course will cover specialized content across a broad range of potential Professional Communications subjects. Students will engage in critical inquiry, examination of current theory and practices, and authoring original communications. Prerequisite(s): PCM 313(W), PCM 315 and PCM 324 with a C or higher and Junior Level Standing
Credits: Credits:3 (3,0)

PCM 432 Special Topics in Professional Communications
This course will cover specialized content across a broad range of potential Professional Communications subjects. Students will engage in critical inquiry, examination of current theory and practices, and authoring original communications. Prerequisite(s): PCM 313(W), PCM 315 and PCM 324 with a C or higher and Junior Level Standing
Credits: Credits:3 (3,0)

PCM 433 Special Topics in Professional Communications
This course will cover specialized content across a broad range of potential Professional Communications subjects. Students will engage in critical inquiry, examination of current theory and practices, and authoring original communications. Prerequisite(s): PCM 313(W), PCM 315 and PCM 324 with a C or higher and Junior Level Standing
Credits: Credits:3 (3,0)

PCM 434 Special Topics in Professional Communications
This course will cover specialized content across a broad range of potential Professional Communications subjects. Students will engage in critical inquiry, examination of current theory and practices, and authoring original communications. Prerequisite(s): PCM 313(W), PCM 315 and PCM 324 with a C or higher and Junior Level Standing
Credits: Credits:3 (3,0)

PCM 435 Special Topics in Professional Communications
This course will cover specialized content across a broad range of potential Professional Communications subjects. Students will engage in critical inquiry, examination of current theory and practices, and authoring original communications. Prerequisite(s): PCM 313(W), PCM 315 and PCM 324 with a C or higher and Junior Level Standing
Credits: Credits:3 (3,0)

PCM 450 Professional Communications Internship I
This course is an internship in a business, civic, educational, government, or not-for-profit organization. Students participate by using their communication skills in real world situations. Prerequisite(s): Junior-Level status and permission of department chair.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

PCM 455 Senior Project in Professional Communication
This is the capstone course in Professional Communications. Students have a choice of completing a workplace internship in a business, civic, educational, government, or not-for-profit organization or completing an advanced research or applied project in consultation with the professor. Prerequisite(s): At least one PCM course at the 400 level with a grade of C or higher, except PCM 450
Credits: Credits:3 (1,0,6)

PCM 460 Internship II
Students will work in another off-campus organization. They will complete 90 hours of work on site, confer with their on-site supervisor and campus academic supervisor at regular intervals, and complete a portfolio illustrating responsibilities they completed in their on site location.
Prerequisite(s): PCM 450
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

PCM 550 Technical Writing for Regulatory Affairs
This course reviews regulatory requirements of technical writing in the pharmaceutical/biotechnology industry. Students research, summarize, and organize typical scientific data for issues of content (relevancy, accuracy, balance, and currency), organization, and style. Current FDA and ICH guidelines are addressed. Writing exercises include topics such as developing product label package inserts, and summarizing studies in pharmacokinetics, pharmacodynamics, efficacy and safety, product development, and stability. Specific types of documents that will be addressed will be standard operating procedures, summary of safety and effectiveness, summary of basis of approval, benefit — risk, proposal writing, instructions and manuals, transmittal letters, memoranda, abstracts and summaries, presentations and briefings.
Credits: Credits:3 (3,0)

PHYSICAL EDUCATION (PED)

PED 100 Introduction to Badminton
This course is designed to teach the student the fundamental skills necessary to play the game of Badminton correctly. It will stress the various shots needed, i.e. the forehand and backhand drive, clear smash and drop shot. It will also concentrate on the history, rules and etiquette of badminton.
Credits: Credits:1 (1,0,2)

PED 115 Introduction to Self Defense
This course is designed to teach students the history of Self Defense. The basic skills needed in defending oneself against attack will be taught. Some forms of Karate and Judo will be included.
Course Offered: Fall, Summer
Credits: Credits:1 (1,0,2)

PED 119 Introduction to Tennis
This course is designed to teach a beginning Tennis player the fundamental skills of the game; stressing the forehand and backhand serve and volley strokes. It will also cover history, scoring, rules, terminology, etiquette and strategy.
Course Offered: Fall, Summer
Credits: Credits:1 (1,0,2)

PED 121 Introduction to Weight Training and Fitness
This course will provide students with the opportunity to develop weight training skills and techniques. This course is designed for students who are interested in physical fitness and will require weight training workouts during class time. We will discuss training safety and learn how to set up a personalized training program for another student.
Course Offered: Fall, Summer
Credits: Credits:1 (1,0,2)

PED 125 Introduction to Racquetball
This class is designed to teach the basic skills, fundamentals, rules, strategies, and techniques required to play the game of racquetball. This introductory course will allow students the opportunity for skills acquisition to incorporate the game of racquetball as a lifetime activity.
Course Offered: Fall, Summer
Credits: Credits:1 (1,0,2)

PED 131 Introduction to Golf
This course is designed to introduce students to the concepts, rules, etiquette, and skills involved in the sport of golf. This introductory course will allow students the opportunity for skills acquisition to incorporate golf as a lifetime activity.
Course Offered: Fall, Summer
Credits: Credits:1 (1,0,2)

PED 135 Introduction to Volleyball
This course is designed to allow students to develop basic skills, learn the rules of the game, and utilize basic offensive and defensive systems of the game of volleyball.
Course Offered: Fall, Winter, Summer
Credits: Credits:1 (1,0,2)

PED 140 Introduction to Basketball
This course is designed to teach the student the fundamental skills necessary to play the game of Basketball correctly. It will concentrate on the history, rules and etiquette of basketball, as well as the skills required to play the game both offensively and defensively.
Credits: Credits:1 (1,0)

PED 145 Introduction to Pickleball
This course will course will examine the basic rules and techniques of Pickleball. We will examine the history of the game as well as rules and etiquette for play. Course offered: Fall, Spring.
Credits: Credits:1 (1,0,2)

PED 203 Introduction to First Aid, AED and CPR Training
This course is designed to help students understand the principles of cardiopulmonary resuscitation and the effectiveness of the trained first responder. Students will become proficient in performing CPR on adults, children and infants. Students will also learn to perform various methods of Airway and Pulmonary Resuscitation and AED. The American Red Cross or the American Heart Association certification will be awarded upon the completion of the course. The course will also involve first aid when caring for accidents or sudden illness. Students will learn how to administer first aid and conduct immediate rescue and care of an emergency victim. All students will receive a Standard First Aid Card.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PED 226 Introduction to Sports Officiating
This course is designed to provide students with a comprehensive understanding of the roles, responsibilities, and career opportunities for sports officiating. Students will explore the rules and regulations of various sports, the qualifications required to become an official, and the certification processes. Additionally, the course will cover professional organizations and the diverse career paths available for sports officials.
Credits: Credits:3 (3,0)

PED 270 Theory and Techniques of Coaching
Topics will include a history of interscholastic athletics in NYS, as well as the objectives, rules, regulations, and policies of athletics. Performance skills, technical information and organization, and management practices will also be among the topics covered. The special training and conditioning of the athletes in specific sports, the filling of equipment needs, specific safety precautions, and officiating methods will also be examined. The student may spend time with a certified coach that would encompass practical experience in the specific sport and/or may spend time observing other approved, certified coaches.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PED 275 Principles, Philosophy and Organization of Athletics in Education
This course covers basic philosophy and principles as integral parts of physical and general education. The student will learn about the state, local, and national regulations related to athletics. In addition, legal considerations and the function and organization of leagues and athletic associations in NYS will be addressed. Personal standards for the responsibilities of the coach as an educational leader, as well as his or her role in public relations and general safety procedures will be covered. The student will also understand the general principles of school budgets, records that must be kept, the purchasing function, and the use of facilities.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PED 280 Health Sciences Applied to Coaching
This course is a series of interactive exercises designed to study Health Sciences as they apply to coaching sports. Through these activities, exercises and health application to coaching topics, participants will gain information, organize it for professional and personal use, and apply it to their particular programs. This course will also help define selected principles of biology, anatomy, physiology and kinesiology related to coaching, risk minimization, mixed competition, NYSED selection and classification of athletes, and age and maturity of athletes.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PED 285 Rules of the Game and NCAA Compliance
This course will prepare students for involvement in the areas of recreation, interscholastic and collegiate sports as well as NCAA compliance. A review of the rules of non-major sports will be emphasized, as there is an increase in participation in those sports by scholastic and college athletes. This course will also help students develop careers in the interscholastic sport administration.
Course Offered: Summer
Credits: Credits:3 (3,0)

PED NC1 NCAA Physical Education Credit
The Sports Management and Physical Education Departments offer one credit if Physical Education given to any student that participates, in accordance with department guidelines on an NCAA approved athletic team offered at Farmingdale State College. There will be a maximum of two credits issued per student athlete during their stay at FSC.
Credits: Credits:1 (0,0,3)

PED NC2 NCAA Physical Education Credit
The Sports Management and Physical Education Departments offer one credit of Physical Education given to any student that participates, in accordance with department guidelines, on an NCAA approved athletic team offered at Farmingdale State College. There will be a maximum of two credits issued per student athlete during their stay at FSC.
Credits: Credits:1 (0,0,3)

PHILOSOPHY (PHI)

PHI 100 Critical Thinking
Applicable to a wide range of subject areas, this course is designed to help students develop the skills of thinking, reading, and writing critically, including the ability to recognize, evaluate, and formulate various kinds of arguments. Students will analyze claims according to evidence, learn about the forms of deductive and inductive reasoning, understand the nature of scientific theories, and study obstacles to reasoning. They will also assess sources of information, such as expert opinion, polls, news media, and the Internet. Prerequisite(s): EGL 101 with a grade of C- or higher.
Credits: Credits:3 (3,0)

PHI 102 Introduction to Philosophy
This course will introduce students to the content and methods of philosophical thinking. It will also develop students' ability to think critically and independently about philosophical issues. Topics may include philosophical theories of knowledge, morality, human nature, critical reasoning, metaphysics, art, politics, gender, race, sexuality, or class. Readings include historical and contemporary texts. Prerequisite(s): EGL 101 with a grade of C- or higher
Credits: Credits:3 (3,0)

PHI 103 Philosophy, Law and the Modern Citizen
An introduction to concepts in philosophy, law, and citizenship and their interrelationship. Ancient and modern thinkers in each field are discussed. Emphasis is on the application of theory to everyday life through citizen apprenticeship.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PHI 105 Philosophy: Classical and Medieval
An examination of philosophical issues based on the writings of classical and medieval authors. Major topics include theory of knowledge, logic, and religion. Prerequisite(s): EGL 101
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PHI 106 Philosophy: Modern and Contemporary
An examination of philosophical issues based on the writings of modern and contemporary authors. Major topics include metaphysics, ethics, and politics. Prerequisite(s): EGL 101
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PHI 110 Philosophy, Politics & Society
This course is an introduction to social and political philosophy. Students will encounter concepts as practical tools for modern citizenship and guides to understanding and critiquing the worlds in which they live. The aim of this course is a more reflective political life, a sophisticated awareness of social and cultural issues, and an understanding of and appreciation for social and political concepts. NOTE: Students cannot earn credit for PHI 110 and PHI 110*D PHI 110*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): EGL 101
Course Offered: Fall
Credits: Credits:3 (3,0)

PHI 205 Ethics
This course will introduce students to the basic questions, concepts, theories, and methods of moral philosophy as well as teach students how to apply moral philosophy to contemporary issues. The relationship between ethics and other branches of philosophy will also be discussed. NOTE: Students cannot earn credit for PHI 205 and PHI 205H PHI 205H is for students in the Honors Program. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PHI 205H Ethics-Honors
An examination of ethical theories including relativism, determinism, and the concept of duty, and the application of these theories to contemporary problems. The place of ethics in relation to other branches of philosophy and the role of religion in shaping ethical theory are also discussed. NOTE: Students cannot earn credit for PHI 205H and PHI 205 PHI 205H is for students in the Honors Program. Prerequisites: EGL 102 (with passing grade of C or better); Restricted to students in the Honors Program.
Credits: Credits:3 (3,0)

PHI 207 Business Ethics
An examination of ethical issues that arise in business and how these issues can be resolved. Various principles of ethical theory are analyzed and applied to particular business situations. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PHI 211 Logic
Logic is an introductory course in reasoning offered by the English/ Humanities Department. Topics to be considered include: logic and its essential role in the expression of ideas; the definition of logic: kinds of logic, e.g., informal, formal, symbolic; the role of logic in relation to the other fields of philosophy, and to the fields of the social and natural sciences. Other topics: valid categorical syllogisms, syntactic and semantic concepts of proof, reasoning with classes, Venn diagrams, reasoning with propositions, propositional logic, paradox analysis and heuristics- how to think of new ideas and how to solve problems. Prerequisite(s): EGL 101
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PHI 220 Special Topics in Philosophy
This course allows students to explore intensively a major philosophical period, author or theme. The subject for each semester will be determined prior to registration. Possible topics include: Bioethics, Philosophy of Religion; Philosophy of Africa. Short papers involving secondary research will be required. Prerequisite(s): EGL 102 with a grade of C or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PHI 230 Philosophy Through Film
This course introduces students to the history of philosophy through cinema. Philosophical texts will be paired with films that explore philosophical questions or themes. This course also considers how film provides a creative and enjoyable public medium for the discussion of philosophical theories and ideas. Prerequisite(s): EGL 101 and EGL 102 all with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

PHI 307 Philosophy of Science and Technology
A philosophical overview of developments in science and technology, showing their impact on general culture. Some highlights include the early separation of religion and philosophy, the role of mathematics in culture, the beginnings of modern science in the works of Galileo, Descartes, Leibniz and Newton, and contemporary revolutions in science and technology. Prerequisite(s): One semester of science and EGL 102 with a grade of C or higher
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

PHYSICS AND PHYSICAL SCIENCE (PHY)

PHY 107 Physics Seminar
This course is a survey course for physics majors. It will cover an overview of the physics major and the topics that physicists study. It will also examine current events in physics and students will study and present relevant topics in physics affecting our world.
Credits: Credits:1 (1,0)

PHY 110 Physical Science: Physical Geology
A survey course in physical geology, examining the various minerals and rock types and the physical processes occurring on and below the surface of the earth.
Credits: Credits:3 (3,0)

PHY 111 Physical Science: Historical Geology
A study in the origin and evolution of the earth through geological time and the methods used by geologist in determining the geological history of the earth.
Credits: Credits:3 (3,0)

PHY 112 Physical Science Survey
A broad descriptive course in Physical Science. Topics to be covered will be from the areas of Philosophy of Science, Astronomy, Physics, Meteorology, Chemistry, Technology, and the Environment.
Credits: Credits:3 (3,0)

PHY 113 Physical Science: Physics
A descriptive course that presents the ideas of Classical and Modern Physics qualitatively and conceptually. The emphasis will be on the relevance of Physics to the students' own experience. Topics covered will be Mechanics, Properties of Matter, Heat, Sound, Electricity and Magnetism, Light, Quantum Theory and Nuclear Physics. This course requires some knowledge of high school level mathematics.
Credits: Credits:3 (3,0)

PHY 114 Physical Science: Environment
A descriptive course dealing with environmental problems caused by population, pollution, transportation, energy requirements, radioactivity, radioactive wastes, thermal emission, noise and heat.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PHY 115 Physical Science: Energy
An introductory course in the scientific, technological and social aspects of Energy. The course is intended to develop an understanding of the physical basis of Energy and an appreciation of the role of Energy in the contemporary world. Basic concepts and principles are studied. Conservation Laws, Fuels, and Energy Conversion Systems are discussed. Resources, Consumption Patterns, and Alternative Economics are analyzed.
Credits: Credits:3 (3,0)

PHY 116 Physical Science: Meteorology
A descriptive course in elementary meteorology that will introduce the student to weather analysis and forecasting. Topics covered will be Temperature, Pressure, Wind Radiation, Clouds, Precipitation, Synoptic weather charts, Air Masses, Low and High Pressure Areas, Frontal Systems, Thunderstorms, Weather Forecasting, and Local Weather. Weather charts will be analyzed and students will make their own weather forecasts.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PHY 117 Physical Science: Solar Astronomy
An elementary astronomy course in which the student is introduced to the historical development of astronomy, and to our present view of the solar system and its origins. Recent NASA missions to the planets are discussed, and periodic observations of the skies may be conducted.
Course Offered: Fall
Credits: Credits:3 (3,0)

PHY 118 Physical Science: Stellar Astronomy
An elementary astronomy course in which the stars and galaxies are treated in detail. Recently discovered phenomena, such as pulsars, quasars, and black holes will be studied. Discussion will also center on cosmology, the NASA missions, colonization of space, and other topical subjects in astronomy. Periodic evening observations of the skies may be conducted.
Course Offered: Spring
Credits: Credits:3 (3,0)

PHY 119 Physical Science: Technology
A descriptive course emphasizing the major events in Technological History, the Rise of Scientific Technology, Delivery Systems, Systems Science, and the impact of Technology of Man and Society. The course is intended to assist the student in the formulation of a personal set of criteria in order to understand and respond to technological changes in modern society.
Credits: Credits:3 (3,0)

PHY 120 Physical Science: Extraterrestrial Phenomena
The possible existence of extraterrestrial life is examined by investigating those areas of the physical sciences and related disciplines which may shed more light on this elusive problem. Arguments are drawn from astronomy, astrophysics, electromagnetic theory, probability theory, relativity, atomic physics, nuclear physics and particle physics. Historical and archaeological views are also discussed. The discussion of extraterrestrial life is utilized as a framework from which many mysteries of the universe are unraveled for the student.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PHY 121 Descriptive Classical Physics
A course covering the fundamental concepts of Classical Physics. Primarily intended for students in the Arts option of the Liberal Arts and Sciences program. Topics will include mechanics, heat, electricity, and magnetism. A knowledge of elementary algebra is required.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PHY 122 Descriptive Modern Physics
This is a course covering the fundamental concepts of modern physics. This course is intended for non-science students, including students in the Arts Option of the Liberal Arts and Sciences programs, as well as students in the School of Business. Topics will include waves, light, relativity, quantum physics, the nucleus and elementary particles. Knowledge of elementary algebra is required.
Credits: Credits:3 (3,0)

PHY 123 The Theory of Everything-The Unification of Physical Law
The four fundamental forces in nature, gravity, electromagnetism, and the strong and weak nuclear forces, appear to be very distinct phenomena. Early attempts to unify them into a single theory of the universe were met with failure and even such great physicists as Albert Einstein were often derided for such futile efforts. With the advent of recent strides in string theory, super symmetry, M-Theory and hyperspace, most physicists believe that man is within reach of such fundamental knowledge. It is the purpose of this course to place this same understanding of unification within the student's grasp. Without resorting to any complex calculations, the course will survey Newton's classical mechanics, Maxwell's theory of electricity and magnetism, Einstein's relativity theories, quantum mechanics, particle physics, and the new particle physics strings. The student will contemplate the possibility of a universe which may be fully explained by a single physical theory.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PHY 124 Physics of Sound
An introductory course in the physics of sound. An overview of the way sound is produced and how humans interact and perceive with sound will be provided. The course will cover basic wave physics, sound production of musical instruments, architectural acoustics, microphone and speakers, sound recording techniques and human hearing. The analysis and synthesis of digital samples as it pertains to digital music will be investigated.
Prerequisite(s): MTH 015 or MP2
Credits: Credits:3 (3,0)

PHY 125L Physical Science Laboratory I
A Physical Science Laboratory to accompany any of the Physical Science Theory courses listed above. Experiments will be in the area of Physics, Astronomy, Meteorology, the Environment and Technology.
Course Offered: Fall, Spring
Credits: Credits:1 (0,2)

PHY 126L Physical Science Laboratory II
A continuation of PHY 125L. Prerequisite(s): PHY 125L
Course Offered: Fall, Spring
Credits: Credits:1 (0,2)

PHY 128 Physics: Computers/ Computation
The physical principles which govern the design and use of computing equipment are discussed. Discussion will include the historical development of computation equipment from the Babbage calculator through integrated semiconductor logic and laser-optical memories. Other topics will demonstrate the use of computation in scientific applications and will include Boolean logic, binary arithmetic, programming languages and an introduction to programming. Prerequisite(s): PHY 113
Credits: Credits:3 (3,0)

PHY 129 Computers in Physical Sciences
A course designed to familiarize the student with computer operation in the physical science laboratory.
Credits: Credits:1 (0,2)

PHY 135 College Physics I
An integrated theory/laboratory general college physics course without calculus. Topics will include fundamental concepts of units, vectors, equilibrium, velocity and acceleration in linear and rotational motion, force, energy, momentum, fluids at rest and in motion, and oscillatory motion. Laboratory problems, experiments and report writing associated with the topics studied in the theory are performed. Prerequisite(s): MTH 129 Corequisite(s): PHY 135L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,2)

PHY 136 College Physics II
A continuation of PHY 135. Topics will include heat, electricity, magnetism, light and optics. Prerequisite(s): PHY 135 Corequisite(s): PHY 136L
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,2)

PHY 143 General Physics I (Calculus)
A fundamental, calculus based, physics course with laboratory offered primarily for students in Science curricula. Topics discussed include Mechanics, Wave Motion, Kinetic Theory, and Thermodynamics. One of MTH 130 or MTH 150 must be taken either as a prerequisite or corequisite.
Course Offered: Fall, Summer
Credits: Credits:4 (4,2)

PHY 144 General Physics II (Calculus)
A continuation of PHY 143. Topics discussed include Electricity, Magnetism and Optics. Prerequisite(s): PHY 143 Corequisite(s): PHY 144L
Course Offered: Spring, Summer
Credits: Credits:4 (4,2)

PHY 151 University Physics I
A fundamental, calculus based, physics course in three semesters offered primarily for students in the Engineering Science curriculum. Topics discussed in the first semester include mechanics of particles and rigid bodies, work energy momentum, conservation laws, and fluids.
Prerequisite(s): MTH 150
Credits: Credits:4 (3,0,2)

PHY 152 University Physics II
A continuation of PHY 151. Topics will include Coulomb's Law, the electric field, potential, capacitance and properties of dielectrics, current, resistance and electromotive force. D-C circuits and instruments. The magnetic field and forces, induced EMF, alternating currents and electromagnetic waves.
Prerequisite(s): PHY 151 Corequisite(s): MTH 151
Credits: Credits:3 (2,0,2)

PHY 161 University Physics Laboratory
Laboratory experiments associated with PHY 151 and part of PHY 152.
Prerequisite(s): PHY 151 Corequisite(s): PHY 152
Credits: Credits:1 (0,3)

PHY 220 Of the Cosmos: Humans in the Universe
Of the Cosmos - Humans in the Universe explores the context of our existence in terms of cosmic, biological, and societal evolution. Within this interdisciplinary course we will examine how the underlying physical laws of our Universe, acting across systems of varied complexity, have led to the current state of our civilization. Starting with the Big Bang, we will follow the evolution of matter from primordial nucleosynthesis to the formation of the Earth in the solar nebula. We will examine the evolution of life on Earth, the ascent of Humankind, the emergence of civilization, invention of technology, and the long-term prospects for the species. Current problems facing our civilization (e.g. climate change, resource scarcity, antibiotic resistance) will be examined within this context. Prerequisite(s): General Education Lab Science
Credits: Credits:3 (3,0)

PHY 228 Introduction to Computational Physics
An introduction to computational physics in which students will apply the mathematical techniques of root finding, numerical integration, interpolation, Fourier analysis, and the solution of ordinary differential equations to physical problems including chaotic dynamics, circuit response, electrostatics, data modeling and prediction, and biophysics. No previous programming experience is expected though basic computer skills will be helpful. Prerequisite(s): (PHY 135 or PHY 143) and (MTH 130 or MTH 150) all with a grade of C or higher.
Credits: Credits:3 (3,0)

PHY 242 The Science of Science Fiction
This course surveys the science within science fiction in multiple genres of media (e.g. print, television, and movies). It explores the uses and abuses of the hard sciences in service to storytelling. It identifies the importance of real scientific ideas in understanding the limits and boundaries of science fiction's commentary on society. Prerequisite(s): PHY 135 or PHY 143
Credits: Credits:3 (3,0)

PHY 253 University Physics III
A continuation of PHY 152. Topics will include temperature and expansion, heat and heat measurements, transfer of heat, thermal properties of matter thermodynamics, molecular properties of matter, wave motion, vibration bodies, acoustical phenomena, light reflection and refraction, lenses and optical instruments. Interference and diffraction, polarization.
Prerequisite(s): PHY 152
Credits: Credits:3 (2,0,2)

PHY 254 Modern Physics
An introduction to the basic ideas of modern physics such as Einstein's theories of relativity, early ideas of atomic structure including the Bohr and Rutherford models, photoelectric effect, de Broglie waves, wave mechanics, Schroedinger's Equation, Heisenberg's Uncertainty Principle, Hydrogen Atom, electron spin, Pauli's Exclusion Principle, quantum oscillator, classical and quantum statistics, solid state physics, nuclear physics and elementary particles. Prerequisite(s): PHY 144 or PHY 253
Credits: Credits:4 (4,0)

PHY 255 Oscillatory Motion and Waves
An introduction to physical concepts (wave packets, normal modes, interference and diffraction) and mathematical techniques (Fourier series, transforms, complex numbers, eigenvectors), including the wave equation. Prerequisite(s): PHY 136 or PHY 144 and MTH 151 or MTH 236 all with a minimum grade of C or higher.
Credits: Credits:3 (3,0)

PHY 262L University Physics II Lab
Laboratory experiments associated with PHY 152 and PHY 253.
Prerequisite(s): PHY 161 Corequisite(s): PHY 253
Credits: Credits:1 (0,3)

PHY 310 Analytical and Numerical Mechanics
This course provides a comprehensive exploration of classical mechanics, focusing on both analytical and numerical approaches to solving dynamic systems. Students will develop a deep understanding of Newtonian mechanics, oscillatory motion, and the motion of particles in inertial and non-inertial reference frames. Topics include vector analysis, rectilinear motion, central force problems, dynamics of particle systems, and the mechanics of rigid bodies. Additionally, the course introduces advanced techniques such as Lagrangian mechanics, which provide a powerful framework for analyzing complex mechanical systems. Emphasis will be placed on both theoretical derivations and practical problem solving techniques, including numerical methods for solving dynamics problems.
Prerequisite(s): PHY 144 and MTH 252
Credits: Credits:3 (3,0)

PHY 312 Materials Thermodynamics
Students will learn to apply thermodynamics and statistical mechanics to real-world solid, liquid, and gaseous materials and their interfaces. Students will assess the application of thermodynamic principles to modern problems in condensed matter and materials physics as well as in atomic/molecular/optical physics. Emphasis will be placed on solving problems with contemporary, computer based techniques. Prerequisite(s): PHY 333 and MTH 252
Credits: Credits:3 (3,0)

PHY 323 Electromagnetic Theory
This course is an introduction to electromagnetic theory. Topics covered are Vector Analysis; Coulomb's Law; Gauss's Law; the Del Operator; the Divergence and Gradient; the Potential; Potential Gradient; Conductors, Dielectrics and Capacitors; the Magnetic Field; the Biot-Savart Law; Ampere's Law; the Curl of E and H; Faraday's Law; Maxwell's Equations.
Prerequisite(s): PHY 136 or PHY 144 and MTH 236 or MTH 252
Course Offered: Spring
Credits: Credits:3 (3,0)

PHY 329 Quantum Information Science
This course offers an introduction to information processing and computing using quantum systems, without requiring any background in quantum mechanics. Starting from the definition of a single quantum bit (qubit), students will learn how to perform basic operations, such as encoding, manipulating, and reading off information in the quantum world. They will assess how genuine quantum properties enable one to perform tasks that is not possible to perform using classical computers. They will also investigate the possible mechanisms that can spoil the information encoded in a qubit and ways to correct them. Additionally, the students will get acquainted with coding environments they can use to simulate and implement their quantum circuits in a real quantum computer available through cloud. Prerequisite(s): PHY 136 and MTH 245
Credits: Credits:3 (3,0)

PHY 333 Modern Physics
An introduction to topics in modern physics for upper-division students. Topics included are Einstein's Special Theory of Relativity, Atomic Physics, Applied Nuclear Physics, and Solid State Physics. Prerequisite(s): PHY 136 or 144
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PHY 334L Modern Physics Laboratory
An introduction to topics in modern physics for upper-division students. Topics included are Einstein's Special Theory of Relativity, Atomic Physics, Applied Nuclear Physics, and Solid State Physics. Prerequisite(s): PHY 136 or 144 both with a grade of C or higher. Corequisite(s): PHY 333T
Credits: Credits:1 (0,3)

PHY 350 Quantum Mechanics
The course introduces the basic concepts of wave mechanics and the formalism of quantum mechanics. Topics will include, the wave function, the uncertainty principle, time-independent Schrodinger equation, formalism, quantum mechanics in three dimensions, identical particles, and symmetries & conservation Laws. Prerequisite(s): PHY 255, MTH 245, and MTH 356 or PHY 356
Credits: Credits:3 (3,0)

PHY 356 Integrated Topics in Math and Physics
This is a new integrated math-physics course with applications to topics in physics and the engineering technologies. It is meant to be interdisciplinary in nature and directed toward students in the Bachelor of Technology and Applied Math Programs. Topics to be covered include: Vector Algebra, Vector Calculus, Scalar and Vector Field Theory, Fourier Series, Fourier Integral, Fourier Transforms and Laplace Transforms. The focus will be on application and integration of math methods to physics and engineering technologies. Note: Students completing this course may not receive credit for MTH 356. Prerequisite(s): MTH 236 or 252 and PHY 136 or 144
Credits: Credits:3 (3,0)

PHY 420 Optics
This course is an introduction to the study of light on the intermediate level. It is an elective course for students in their fourth year of the Electrical Technology program. It begins with a review of the mathematics of wave motion. Starting from Maxwell's equations, the electromagnetic theory of light is discussed. Topics covered will be the propagation of light, the laws of reflection and refraction, the superposition of waves, interference and diffraction of light, the quantum nature of light, and the concept of the laser. Prerequisite(s): PHY 323
Credits: Credits:3 (3,0)

PHY 423 Photonics
This course is aimed at developing a basic understanding of the multifaceted nature of light, with a focus on the generation, transmission, manipulation and detection of it using different techniques and various media. The students will learn the physics behind contemporary techniques in performing the aforementioned tasks, which are at the heart of long-distance telecommunication in the modern world. Prerequisite(s): PHY 323
Credits: Credits:3 (3,0)

PHY 450 Quantum Optics
This course establishes a theoretical framework to understand the quantum nature of light and its interaction with matter with explicit connections to experimentally relevant models. Students will be able to assess the distinctions between the properties of quantum (coherent) and classical (incoherent) sources of light and their importance, which will allow them to understand the physical mechanisms behind modern technological devices. Students will also learn about the dynamic processes that originate from the external influences such as decoherence and dissipation.
Prerequisite(s): PHY 350
Credits: Credits:3 (3,0)

PHY 480 Physics Research I *AL
Physics Research I represents substantial projects or work experiences for 135 hours earning 3 credits. Students will work alongside physics faculty in their professional research. Registration requires submission of resume

three months in advance, physics faculty invitation or recommendation, and department Chair approval. Prerequisite(s): PHY 135 or PHY 143 with a minimum grade of C or higher; and permission of department chair
Course Offered: Fall, Spring
Credits: Credits:3 (0,0,9)

PHY 481 Physics Research II
Physics Research II represents substantial projects or work experiences for 135 hours earning 3 credits. Students will work alongside physics faculty in their professional research. Registration requires submission of resume three months in advance, physics faculty invitation or recommendation, and department Chair approval. Prerequisite(s): PHY 480 Physics Research I with a minimum grade of B or better; and permission of department chair
Course Offered: Fall, Spring
Credits: Credits:3 (0,0,9)

PHY 482 Physics Thesis
This course is a Capstone requirement in which the student works with a physics department faculty member on writing a thesis based on an individual research project. The student will detail how they applied Knowledge and Skills required in the classroom to a real life research problem in physics. Students will complete the thesis in one semester based on Research already conducted in physics 480 and 481. The thesis should represent a significant integration of each student's undergraduate coursework built around their particular research project conducted on campus. The course will culminate in the submission of the thesis to the student's thesis committee followed by an oral defense of the thesis. Prerequisite(s): EGL 102 and PHY 481 Credit(s): 3
Credits: Credits:3 (3,0)

PHY 499 Special Topics Applied Physics
This course explores specialized topics of interest in applied physics that bridge fundamental physical principles with real-world technological applications and research frontiers. Topics vary from semester to semester and may include acoustics, advanced materials, nuclear physics, particle detectors and accelerator physics, quantum technologies, space physics, astrophysics, etc. Students may take multiple special topics courses. Prerequisite(s): PHY 144
Credits: Credits:3 (3,0)

POLITICS (POL)

POL 105 Introduction to Politics
This course will introduce students to the study of politics and to the discipline known as Political Science. Focusing on fundamental concepts of power and authority, the course will examine topics central to each of the main subfields of Political Science: American Politics, Comparative Politics, International Relations, and Political Philosophy. It will also explore some contemporary issues and debates that captivate US politics.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

POL 110 Introduction to Legal Studies
This is a survey course designed to give the student a basic introduction to law beginning with the various schools of legal philosophical thought, criminal and civil law and procedure, and basic contract law. The course provides the student with an understanding and overview of how the American legal system functions including introducing students to the principles of law, the administration of the legal system, legal terminology, and the inter- relationship between politics, governmental structures, legal professionals and the functioning of the legal system.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

POL 115 Introduction to Public Policy
This course is a survey of contemporary issues in American public policy such as education, health care, welfare programs, crime, environmental issues, and the economy. The course will promote familiarity with major policy issues being discussed and debated in government today, as well as develop students problem-solving abilities, analytical techniques, critical thinking, and communication skills. A variety of social science fields and concepts, including political economy, program evaluation, policy analysis, and public management, will be assessed and applied to problems of governmental administration, management, and operations.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

POL 210 Legal Reasoning and Judicial Politics
Legal Reasoning and Judicial Politics examines how legal reasoning functions in the U.S. governance structure and how legal arguments and decisions operate within the broader framework of judicial politics. Students will learn to deeply read and succinctly brief case law, analyze statutory law, and apply legal reasoning to factual and hypothetical situations. Students will learn to identify political contexts and how they inform judicial decision-making. The course focuses on understanding why courts rule the way they do, highlighting the interplay between legal arguments, judicial behavior, institutional dynamics, and broader political forces. Prerequisite(s): POL 110 with a grade of C or higher
Credits: Credits:3 (3,0)

POL 250 American Politics
This course introduces students to American Politics by focusing on national politics. In addition to examining the structure of U.S. government at the federal level, this course will also investigate American political behavior (especially political parties, elections, voting) and selected policy debates the animate contemporary political discussion. NOTE: Students cannot earn credit for POL 250 and POL 250*D POL 250*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

POL 251 State and Local Government
An examination of the structures and purposes of state, county, and municipal political institutions, emphasizing the importance of citizen participation in community affairs and the election process, in enhancing the effectiveness of state legislatures and judicial systems, county and municipal government, and the protection of civil rights through law enforcement.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

POL 262 Global Politics
An introduction to global politics which explores regional issues in Europe, Asia, Africa, the Middle East, the America etc., as well as genuinely transnational concerns such as pandemics, international terrorism, environmental degradation, etc. Prerequisite(s): Any 100-level or higher HIS or POL course.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

POL 264 Public Administration
Introduces the role of public administration in governance at the local, regional, state, and federal level. Topics include the development of public administration as a profession and as an academic discipline; administrative and organizational theory; decision-making; the effect of politics; how policies are evaluated; as well as the roles of management, budgeting, finance, accountability, and ethics. By reading and discussing classic texts, and through analysis of case studies, students will understand the institutions, processes, and values that underlie the administration of public policy in both government and non-profit settings. Prerequisite(s): EGL 101 and any 100-level POL course both with a C or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

POL 265 Comparative Politics
This course examines a broad range of governmental systems utilizing the comparative methods of analysis. In addition to analysis of selected political systems in the developed world (e.g., Great Britain, the United States, and the Russian Federation), students will also explore the governmental structures of at least one country in the developing world (India, Brazil, the People's Republic of China, etc.). Students will also compare plural democracies, monarchies, dictatorships, and neo-authoritarian forms of government, emphasizing policy-making and contemporary problems facing the state in era of globalization, such as the purported victory of neo-liberalism, the threat of terrorism, and the importance of satellite television and the Internet in shaping politics.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

POL 270 American Political Institution
This course provides an introduction to American governmental and political institutions. It prepares you to think analytically about the development and dynamics of American political institutions (Congress, the presidency, the bureaucracy, and the judiciary) and political processes

(public opinion, political participation, elections, political parties, interest groups, and the role of the media). Throughout the course, attention will also be given to the structures and processes that define New York government and politics. By the end of the course, students should demonstrate an increased capacity for critical thinking and an ability to effectively communicate, both verbally and in writing, their understanding of the institutions and processes involved in American governance.
Credits: Credits:3 (3,0)

POL 273 Italian Politics and Society
This survey course is designed for students who have a lively curiosity about Italy. Employing a historical perspective, students will examine Italy's efforts at "nation-building" from Machiavelli to the present. Students will learn about Italy's unique and extensive contributions to Western Civilization (politics, economics, science, art, culture, societal organization). They will also be introduced to definitions, concepts, distinctions, and theories that are fundamental to the study of political science and, in particular, the subfields of comparative politics and political philosophy.
Course Offered: Spring
Credits: Credits:3 (3,0)

POL 301 American Foreign Relations
This course examines American foreign relations in the post-World War II era, assessing the country's transition from isolationism to the adoption of mutual security agreements during the Cold War. Washington's changing orientations since 1991 will be explored in detail, particularly new security relationships that were established in the wake of 9/11. Key topics will include diplomacy, national interest, grand strategy, and the promotion of democracy, human rights, and free markets abroad. Prerequisite(s): POL 105 or any 200-level or higher HIS/POL/GEO course
Credits: Credits:3 (3,0)

POL 310 Introduction to Political Theory
This course will introduce students to some of the major themes and classic works of Western political philosophy. Focusing on a central theme (e.g. political obligation, human rights, equality), students will examine how that issue is addressed by some classic political philosophers such as Plato, Hobbes, Locke, Rousseau, Marx. They will also assess and debate contemporary US theory and practice with regard to the issue at hand. Prerequisite: Any 100 level or higher social science.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

POL 313 Taylor Swift and Politics
This course examines the political influence and impact of Taylor Swift. Throughout American history, women were often excluded from the political sphere. Yet, in recent years women have made tremendous gains in electoral politics. In addition to women's representation increasing in the modern era, the influence of women celebrities has also grown. This class traces cultural changes to discern how women's power has grown over the past few decades with particular emphasis on the rise of political elites and the influence they hold. Using Taylor Swift as a prism, this course explores several concepts from political science, such as political behavior and psychology, media and politics, and polarization, among others. Prerequisite(s): Any 200-level or higher POL course
Credits: Credits:3 (3,0)

POL 318 Political Psychology
In this course, we examine the psychological bases of people' s political beliefs and actions. Political psychology is an interdisciplinary field that blends theories and approaches from political science and social psychology to examine the ways in which human psychology affects and is affected by overarching political institutions. We will go beyond describing what happens in politics (e.g., who won an election) or how it happened (e.g., who voted for whom) and instead identify explanations for why we observe certain political behavior by looking at the psychology of individuals. For example, what causes people to make decisions and form attitudes-and sometimes change their minds? Or why do individuals identify with certain political groups and not others? This course provides an introduction to the theories, methods, and findings of scientific research in political psychology that aim to explain these processes and help us to apply their insights to make sense of political behavior in the United States. We will cover a range of topics that help us to understand the psychological bases of political behavior, such as attitudes, ideology, personality, emotions, morality, knowledge, and intergroup dynamics like identity politics. Prerequisite(s): PSY 101 or POL 250 Credit(s): 3
Credits: Credits:3 (3,0)

POL 320 Internet Politics
In the developed world, the issue is not whether the Internet affects politics, society, culture and commerce, but rather how and why it does and to what consequences. How do we comprehend the tensions, contradictions, conflicts, paradoxes created by the rapid spreading of the Internet? This course examines the impact of recent communication technologies on the social system, democracy and government, social movements and interactions, markets and commerce, globalization and governance, and the relations between culture and the state. This course focuses on the intersections among politics, society and commerce through a comparative perspective and asks students to evaluate the central controversial policy dilemmas and problems that have emerged and persisted over the Internet. Prerequisite(s): Any 100 level higher HIS or POL course.
Course Offered: Spring
Credits: Credits:3 (3,0)

POL 325 Women in American Politics
Throughout American history, women were often excluded from political institutions. Yet, in recent years, women have made tremendous gains in electoral politics — the 2018 election led to a record number of women being elected to Congress. Despite the increased presence of women in politics, women still continue to be largely under-represented (relative to their proportion in the overall American population). In this class, we will consider academic research on the role gender plays in American politics. In particular, we will address research on gender effects in elections, governance, partisan identities, and political issues. Prerequisite(s): POL 250
Credits: Credits:3 (3,0)

POL 330 21st Century Energy Policy
In this course, students will examine pivotal questions of U.S. and global energy policy. Topics covered will include the development of alternatives and emerging technologies, energy efficiency, government intervention in markets, and the future role of conventional sources. While the focus is on the electricity sector, the roles played by food production and transportation will be considered as well. Students will also evaluate the role of localities and states, paying particular attention to how they are responding to changes in federal policy. Prerequisite(s): Any 200 level or higher social science Course with a grade of C or higher
Course Offered: Fall
Credits: Credits:3 (3,0)

POL 333 American Campaigns and Elections
What explains the current state of the American political system? How do elections and political campaigns work? Are voters manipulated by slick media-based election campaigns? What about campaign ads or social media? Do polls help or harm voters? Do differences in how states regulate voting matter? The goal of this course is to enhance our understanding of the contemporary political environment, how elections work, how politicians conduct campaigns, how campaigns and media coverage affect voters, and how we study election campaign dynamics. We will not only examine the academic literature on these topics but also will reflect on the events of actual campaigns. We also will consider the place of elections and campaigns in contemporary American democracy. Prerequisite(s): POL 250
Credits: Credits:3 (3,0)

POL 340 Constitutional Law and Politics
This course provides students with a foundational knowledge of US Constitutional law and the political context surrounding Supreme Court nominations and judicial decision-making. Students will be introduced to a wide range of topics: the origins, philosophical underpinnings, and structure of the US Constitutional system; the scope of federal and state authority; separation of powers; liberty interests arguably inherent in various Constitutional provisions; as well as the role of the judiciary—and Supreme Court specifically—in the American polity. Students will learn about, and apply, techniques of constitutional interpretation, and will brief recent Supreme Court decisions and communicate their findings to the class. Prerequisite(s): POL 110 and any other 200-level or higher Social Science course
Credits: Credits:3 (3,0)

POL 344 DEI: History, Politics, and Policy
This course examines diversity, equity, and inclusion (DEI) policies. American history is tumultuous and rife with institutions that were designed to exclude various minority groups. DEI policies were developed as a way to combat these systemic prejudices. This course first delves into the history of DEI policy and discuss the circumstances that led to their development. The course further examines how to read and understand these policies and analyze the impact that they've had. Finally, the course explores the recent

debates surrounding DEI policy and discusses possibilities for what a future with and without DEI policies may look like. Prerequisite(s): Any 200-level or higher POL course
Credits: Credits:3 (3,0)

POL 345 American Parties and Partisanship
This course will examine the history, function and leadership of political parties and the role they play in the operation of national, state, and local governments in the United States and a study of the role of group politics and voting behavior in the American political process. This course is designed to provide an understanding of the origins, development, and contemporary function of the major political parties in the United States as well as the continuing evolution of the American electoral process. This course is organized around two broad themes. The first is the place of political parties in democratic governance. Here we ask why parties exist and explore the defining characteristics of parties relative to other political organizations. We also study the history of US political parties and party eras, and the relationship between electoral rules and party systems. The second theme is parties in elections. Here we study the mechanics of American electoral processes and political behavior. Topics considered here include the relationship between parties and political participation, voter choice, and candidate and party electoral strategies. Prerequisite(s): POL 250
Credits: Credits:3 (3,0)

POL 350 Administrative Law
This course offers an in-depth exploration of administrative law, emphasizing its role in shaping public administration and governance in the United States. Building on foundational knowledge from prior coursework in legal studies and politics, students will delve into the complex interplay between administrative agencies, the executive branch, and the judiciary. Key topics will include the federal and state agency rule making and adjudication processes, the legal requirements of private companies and non-profits funded by public money, the formation and ultimate reversal of the Chevron Doctrine, and how administrative law ensures that agencies operate within legal and ethical boundaries, or how it doesn't. Prerequisite(s): POL 110 and any 200-level or higher POL course
Credits: Credits:3 (3,0)

POL 360 Women in Comparative Development
This course examines the relationship between women and development, including controversies surrounding the gendered impact of development strategies. It explores issues such as women's health, education, employment, and population planning in the developing world. The course will analyze how women's rights, leadership, and political participation are restricted or hindered by various societal and governmental structures. The course will consider a wide range of issues and human rights violations against women and examine how such inequalities affect the political and developmental progress of a country. Prerequisite(s): Any 200-Level or higher social science course.
Course Offered: Spring, Summer
Credits: Credits:3 (3,0)

POL 364 Advanced Public Administration
Advanced Public Administration builds upon the foundational concepts introduced in Public Administration, delving deeper into the principles, practices, and challenges of public administration, defined broadly to include public agencies as well as private companies and non-profits who implement public policy. In addition to delving deeper into foundational concepts, students will also learn complex new topics such as human resources and budgeting. In groups and independently, students will use tools of policy analysis and program evaluation to advance their understanding of the contemporary and contextual practice of public administration in a policy domain that is congruent to their academic and career interests. Prerequisite(s): POL 264
Credits: Credits:3 (3,3)

POL 366 Quantitative Methods of Political Sceince
This course prepares students to read, analyze, and effectively communicate research in political science. Students learn not only elementary statistical methods, but how to interpret and apply these findings. Additionally, and perhaps most importantly, students learn how to use quantitative data to tell compelling stories about relevant political issues. This course involves analytical, quantitative, and mathematical skills within the study of political science. Students will learn and practice developing research questions, forming hypotheses, identifying appropriate research measures, statistical techniques and analysis, and scholarly writing. NOTE: Students cannot get credit for POL 366 and POL 366W. Prerequisite(s): MTH 110 and Any 200-level or higher POL course
Credits: Credits:3 (3,0)

POL 370 International Relations
This course examines how the international political system was established and how it has changed since the Peace of Westphalia. Focusing on the role of states, complemented by a thorough analysis of non-state actors, students will investigate how the global system works and how the process of globalization is remaking the political and economic world. The art and purpose of diplomacy will also be explored. Prerequisite(s): Any 200-level or higher HIS, POL or GEO course.
Course Offered: Fall, Winter, Summer
Credits: Credits:3 (3,0)

POL 371 Geopolitics
This course examines the strategic, political, and cultural developments and concepts associated with geopolitics from late 19th century through the current era. Combining knowledge of international relations and world geography, students will examine how states and nations interact in an increasingly globalized world. Special topics will include the geopolitics of space, technology, energy, religion, and the environment. Popular media's impact on geopolitics understanding will also be explored. Prerequisite(s): Any 200-level or higher HIS, POL or GEO course.
Course Offered: Fall
Credits: Credits:3 (3,0)

POL 372 Politics of Europe
This course is a comparative evaluation of European governments and politics, paying particular attention to challenges facing the Continent such as security, trade policy, ethno-nationalism, immigration, and terrorism. Integration of the former Eastern Bloc into Europe since 1989 will figure prominently in the course. Transnational cooperation and integration through organizations such as NATO and the European Union will be considered, alongside Russia-European relations in the wake of the war in Ukraine. Prerequisite(s): Any 200-level or higher HIS, POL, or GEO course.
Course Offered: Spring
Credits: Credits:3 (3,0)

POL 373 Politics in Asia and the Pacific Rim
This course is a comparative evaluation of governments and international politics in the Asia-Pacific region, paying particular attention to the rise of China and the new geopolitics of the Pacific Rim. Regional rivalries, economic reform, and foreign policy will figure prominently in the course. Transnational cooperation and integration through organizations such as APEC, ASEAN, and ANZUS will be considered. Prerequisite(s): Any 200-level or higher HIS, POL or GEO course.
Course Offered: Spring
Credits: Credits:3 (3,0)

POL 374 Politics in Africa
This course addresses modern African politics, including, but not limited to the colonial background and its consequences, ethnicity, the military, ideology, dependency, democracy and political stability. While a thematic approach to African politics is stressed in the course, an underlying current in the course will be the tensions that exist between opposing forces in African politics. Some of these influences include foreign and indigenous influences, anarchy and order, democracy and authoritarianism, socialism and capitalism, political decay, and development. Prerequisite(s): Any 200-level course in Social Science
Course Offered: Spring
Credits: Credits:3 (3,0)

POL 375 Russia and Post-Soviet Eurasia
This course examines the politics of the Russian Federation and the other post-Soviet republics following the dissolution of the USSR. While the primary focus of the course will be on Russia since the rise of Putin, the shared historical background of Ukraine, the Caucasus, and Central Asia from the tsarist period through the late twentieth century will also be explored. Domestic politics, economic reform, gender issues, religious diversity, regional cooperation/conflicts, and foreign policy will figure prominently in the course. Prerequisite(s): Any 200-level or higher HIS, POL or GEO course
Credits: Credits:3 (3,0)

POL 376 Politics of the Middle East
This course is a comparative evaluation of the politics of the Middle East and North Africa (MENA) region. Beginning with the late Ottoman period, students will examine historical and contemporary patterns of regime stability and transformation from empire to modern nation-states. Key concepts of the course include the Arab-Israeli conflict, civil wars, authoritarianism, state-society relations, and economic development. The course will also analyze the impact of Islamism, ethno-religious sectarianism, gender relations, geopolitics, and natural resource exploitation across the MENA region. Prerequisite(s): Any 200-Level or higher HIS, POL, or GEO Course
Credits: Credits:3 (3,0)

POL 390 Environmental Politics
This course examines the evolution of the environmental movement in the U.S. and worldwide, focusing on the debate over environmental protection, policy-making, and the political ramifications for the national governments. Biodiversity, climate change, population issues, water pollution, regulation of emissions, land preservation, energy policy, transnational cooperation, eco-terrorism, and theories of the global commons will all be explored from a domestic and global perspective. Prerequisite(s): Any 100-level or higher HIS or POL course.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

POL 392 Religion and Politics
This course examines the complicated and often fractious relationship between religion and politics. Following a brief introduction to the world's major religions, we will explore how politics and faith interact around the globe. Following a geographic approach, we will focus first on the United States before investigating the politics of religion in Europe, the Middle East and Africa, Latin America, and the Asia-Pacific region. The themes of theocracy, sectarian conflict, fundamentalism, Islamism, secularism, and so-called "religious terrorism" will be investigated. Prerequisite(s): Any 200-level or higher HIS, POL or GEO course.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

POL 393 Politics and Popular Culture
This course examines the influence of popular culture on political identity within the United States and across the globe. The relationship between the U.S. entertainment industry and the political system will be explored, while the second half of the course will focus on the impact of global popular culture on international relations. Various forms of pop culture will be addressed, including but not limited to: film, television, music, video games, novels, comics, political cartoons, jokes, blogging, fads, and fashion. NOTE: Students cannot earn credit for POL 393 and POL 393*D POL 393*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): Any 200-level or higher HIS, POL or GEO course.
Course Offered: Summer
Credits: Credits:3 (3,0)

POL 395 Special Topics in Politics
This course offers instruction in special content areas not included in other Politic courses. All courses will include component focusing on the interplay between technology, globalization, and politics, either in U.S. or at the international level. This course will require extensive reading and research, focused on the selected topic. Students should consult the department before registering for any Special Topic course. Prerequisite(s): Any 100 level or higher HIS or POL course.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

POL 397 Public Administration Internship
The internship in public administration offers students an experiential education by providing hands-on opportunities to apply theory in real-world settings. Students will work with public agencies, non-profits, or private companies that interface with public policy. Based on the location of their internship, students may be involved in policy analysis, program evaluation, community outreach, or other forms of entry-level public administration. Prerequisite(s): POL 264 with a grade of C or higher
Credits: Credits:3 (1,0,6)

POL 398 Washington DC Internship
This option is available to students admitted to the Washington Internship Institute (WII) program that is affiliated with Farmingdale State College. A wide variety of internships are available in government offices, nonprofit organizations, and for-profit companies. Recent Farmingdale students have been placed at the IRS, the non-profit "No Labels," The Center for American Democracy, CNN, the Iraqi Embassy, and Capitol Hill offices. The four-day per week internship is supplemented by two courses: an internship seminar and an extra course selected by the student. Prerequisite(s): Approval by Study Abroad Office and Student's Department Chair Corequisite(s): Sophomore, Junior, or Senior status
Course Offered: Fall, Spring, Summer
Credits: Credits:3 to 3 (1,0,6 to 6)

POL 399 NYS Legislative Internship
For students participating in the full-time New York State Assembly and Senate Legislator Session Internship programs. Students work as staff members in their assigned State Legislator/Senator's office a minimum of 30 hours a week, conducting. During the internship, students participate in seminars, mock legislative sessions, and weekly research and written assignments. A written report on the internship experience is required of the student at the conclusion of the internship. Internships are open only to qualified junior and seniors with an overall grade point average of 3.0 or higher through a competitive selection process. Spring semester only. Note: Students must consult with the Campus Liaison Office to determine credit value to be assigned. Prerequisite(s): Permission of the Department Chair and Junior/Senior Level status and admission to NYS Assembly/Senate Internship Program.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 to 3 (1,0,6 to 6)

POL 464 Public Administration Senior Project
In this capstone service-learning course, students will synthesize what they have learned in previous classes and will apply that knowledge by actively engaging, and providing a service to, an organization that interfaces with public policy and administration. Projects will vary from year and year and from student to student, but examples include conducting an in-depth analysis and report of a current policy challenge faced by a non-profit agency; developing a stakeholder analysis and community engagement plan for a local agency implementing new policies; or writing a grant proposal to alleviate an identified public problem. Prerequisite(s): POL 364, POL 366, and Senior Status Corequisite(s): POL 366 may be taken at the same time with department approval.
Credits: Credits:3 (3,0)

PSYCHOLOGY (PSY)

PSY 101 Introduction to Psychology
This course is designed to present basic psychological concepts and to introduce students to the scientific study of behavior. Core topics include methods of psychological research, the biological bases of behavior, principles of learning, memory and cognition, personality, and psychopathology. Other selected topics to be covered would include the following: motivation and emotion, life-span development, social psychology, health psychology, sensation and perception, intelligence, human sexuality, statistics, and altered states of consciousness.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 101H Introduction to Psychology
This course is designed to present basic psychological concepts and to introduce students to the scientific study of behavior. Core topics include methods of psychological research, the biological bases of behavior, principles of learning, memory and cognition, personality, and psychopathology. Other selected topics to be covered would include the following: motivation and emotion, life-span development, social psychology, health psychology, sensation and perception, intelligence, human sexuality, statistics, and altered states of consciousness. NOTE: Students cannot earn credit for PSY 101H and PSY 101 PSY 101H is for students in the Honors Program. Prerequisites: Restricted to students in the Honors Program.
Course Offered: Fall
Credits: Credits:3 (3,0)

PSY 132 Introduction to Human Services
The purpose of this course is to provide an exploration of the broad field of human services and examine the services and functions of the human service professional. The student will become knowledgeable about the many roles and functions of the human service professional, gain an understanding of the types of agencies where human service professionals are employed and will explore the history and future of the field. Students

will develop knowledge, skills, values, and attitudes needed to be successful in this honorable field of work. The needs of different groups who benefit from direct service provided by human service professionals are identified. Social intervention strategies, interviewing, case management, counseling, program planning, organizing, changing systems, legal issues, and current trends are included. Note: Completing this course does not lead to licensure in social work.
Credits: Credits:3 (3,0)

PSY 220 Child Development Birth-5 years
The course will focus on theories of attachment, theories of childhood, and developmental touch points essential in learning about children. This knowledge allows child care professionals to establish nurturing environments conducive to meeting the individual needs of children and families while being respectful and cognizant of family preference and cultural frameworks. This course is designed to provide students with opportunities to explore, reflect, and build a theoretical grounding in child development. Students will have numerous opportunities to link theory to practice, with a focus on hands-on learning. Students are encouraged to question, reflect, and integrate their experiences and readings while they learn from each other through small group brainstorming, problem solving, and discussions. This course requires students to complete 120 hours of supervised work experience in a child care setting, over and above the in-class experience. Prerequisite(s): Permission of Department
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,1)

PSY 221 Observing & Recording Development of the Young Child
This course is designed to provide students with opportunities to explore, reflect on, and apply the theoretical grounding gained in Child Development Birth - 5 years. The course will focus on presenting a unique system for observing and recording development of children ages Birth to 5 years in early-childhood classroom settings. The system is based on a progression of children's skill development in six major areas: emotional development, social development, physical development, cognitive development, language development, and creative development. Students will not only explore how to observe, record, and interpret development of children Birth through 5 years of age, but also have opportunities to discuss what these children are like and how to support them in their development with exciting hands-on activities. Students will identify ways to connect their observations to making individual learning plans, assessment of individual children for program development, and developing classroom activities that are developmentally appropriate for young children. Students will have numerous opportunities to link theory to practice, with a focus on hands-on learning. Students are encouraged to question, reflect, and integrate their experiences and readings while they learn from each other through small group brainstorming, problem solving, and discussions.This course requires students to complete 120 hours of supervised work experience in a child care setting above and beyond the in-class experience. This course is designed to be taken simultaneous with PSY 220. However, a student may take PSY 220 first; and PSY 221 after, PSY 220 must be passed with a C grade or higher, and can be either be a pre- or co-requisite. Corequisite(s): PSY 220
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,1)

PSY 222 Early Childhood Learning Environments
This course is designed to provide students with opportunities to explore, reflect, and build upon the theoretical grounding gained in the Child Development course. The course will focus on establishing and_ maintaining a safe, healthy, learning environment through the examination of each child's physical, cognitive, language, creative, self, social, and emotional development, and their impact on child guidance practices. Students will have numerous opportunities to link theory to practice, with a focus on developing safe learning environments; creation of good health and nutrition practices; development of environments that encourage growth, creativity, curiosity and learning. Students are encouraged to question, reflect, and integrate their experiences and readings while they learn from each other through small group brainstorming, problem solving, and discussions. This course requires students to complete 120 hours of supervised work experience in a child care setting, above and beyond the in-class experience. Prerequisite(s): PSY 221 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,1)

PSY 223 The Childcare Professional and Family Dynamics
The course will focus on establishing positive and productive partnerships with families, ensuring a well-run, purposeful program responsive to participant needs, and maintaining a commitment to professionalism. Special attention will be given to making connections when working with diverse families and communities, as well as children with special needs. Students will learn about establishing and maintaining high-quality childcare programs and how to assess and support the families of young children. This course is designed to provide students with opportunities to explore, reflect, and build upon their belief and view of early childhood professionals within the field as well as within society. Students will have numerous opportunities to link theory to practice, with a focus on hands-on learning. Students are encouraged to question, reflect, and integrate their experiences and readings while they learn from each other through small group brainstorming, problem solving, and discussions. This course requires students to complete 120 hours of supervised work experience in a child care setting above and beyond the in-class experience. Prerequisite(s): PSY 221 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:4 (3,0,1)

PSY 230 Gender Psychology
This course will examine sex role stereotypes and their effects, research on psychological sex differences, theories of male and female development, sex roles and social institutions - how perceptions of males and females are influenced by schools, religion, and the media; and male and female approaches to sexuality, marriage, and parenthood. Readings and class discussions will be used to help students achieve a greater understanding of the female and the male experience. Prerequisite(s): PSY 101.
Credits: Credits:3 (3,0)

PSY 231 Group Dynamics
This course blends theory and application of the principles of group interaction and development. This is not a lecture course. Through actively participating in class exercises, students will have an opportunity to develop their sense of self in relation to others and to develop skill in effective group functioning. The general content of the course involves group formation, communication, leadership, decision-making, problem solving, goal setting, power and influence, conflict and conflict resolution, cohesion norms, and stages of group development. Prerequisite(s): PSY 101.
Credits: Credits:3 (3,0)

PSY 232 Child Development
In this course the student will explore human development from preconception through the end of childhood. Course material will include historical and modern concepts of attitudes towards children, theories and models of child development, research methods in the study of children, genetics, prenatal development and influence, pregnancy, and birth. Within each age range the emphasis will be on factors influencing the physical, cognitive, social, and emotional development of the child. Developmental disorders, both physical and psychological, will also be explored. Prerequisite(s): PSY 101.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 233 Adolescent Development
This course focuses on adolescent behavior. The emphasis is on growth and change-physiological, psychological/interpersonal and socio-cultural. Issues of particular concern to adolescents will be presented and discussed. Some selected topics are: peer pressure, the sexual issue, the availability of drugs, establishing a separate identity, dating and relationships and finally the transition to adulthood. Prerequisite(s): PSY 101.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 234 Social Psychology
This course introduces the student to the study of how people influence each other. Topics to be covered include: liking and loving, aggression and violence, obedience and compliance, helping in emergencies, attitudes, prejudice and sexism. In addition, social perception and group behavior will be examined. NOTE: Students cannot earn credit for PSY 234 and PSY 234*D PSY 234*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s):PSY 101.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 237 Theories of Personality
The course will examine the concept of personality from four theoretical perspectives: psychodynamic, trait, learning, and humanistic. Representative theories of each perspective are discussed in terms of basic

conceptualizations, methods of assessment, development, research and clinical applications. Prerequisite(s): PSY 101.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 238 Psychology of Human Sexuality
This course presents a scientific foundation for the understanding of the psychological, physiological, social, and behavioral aspects of human sexuality. In addition to studying historical changes in sexual practices and attitudes, the course will review and evaluate current research, issues and concerns about sexuality, in order to provide contemporary and relevant curriculum material. Topics include psychosexual development, gender roles, sexual orientation, sexual anatomy, alternate methods of reproduction, pregnancy/birth, contraception, sexually transmitted diseases, sex education, sexism, love and attraction, sexual abuse, sexual dysfunctions, sex therapy, paraphilias, and sexuality through the life cycle. Prerequisite(s): PSY 101.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 240 Health Psychology
Health Psychology is the study of psychological factors that affect health and illness. This course will apply a scientific and research perspective to the study of health promoting and health damaging behaviors. Using a biopsychosocial approach, behavioral patterns that result in cardiovascular disease, cancer, alcoholism, sexually transmitted diseases and other conditions will be explored. Course content will focus on stress and the immune system, stress management techniques, the health care system, risk taking, culture-bound syndromes, diversity issues, social support, and the role of the patient. Prerequisite(s): PSY 101.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PSY 241 Introduction to Case Management
This course teaches the principles, practices, and issues in human services case management. The course will introduce various case management models along with the roles and functions of case managers. Students will develop a basic understanding of the primary concepts and process of case management. It will highlight the nature of client participation and the mutuality of the helping process. Ethics and ethical dilemmas will be addressed. Skills for client centered culturally competent case management will be explored. Prerequisite(s): PSY 132
Credits: Credits:3 (3,0)

PSY 242 Educational Psychology
This course will present current scientific theory and research related to formal learning environments. Individual differences in cognitive, social, and emotional development, and the implications for the teaching/learning process will be explored. These general areas will be addressed through more specific topics including growth and development, learning theories, moral development, motivation, and classroom management. In addition, issues related to teaching in a diverse society will be addressed. Note: Students cannot get credit for PSY 242 and 242W; PSY 242W can be used to fulfill the writing intensive requirement. Prerequisite(s): PSY 101.
Credits: Credits:3 (3,0)

PSY 245 Work Motivation
This course will examine work motivation, a central topic in the field of Industrial/Organizational Psychology. Students will be introduced to the major content and process theories of motivation including Maslow's Hierarchy of Needs, the Job Characteristics Model, Expectancy Theory, Equity Theory, and Goal Setting. The course will focus on the applications of these theories in the workplace, with an emphasis on job design, employee involvement, and reward systems. The interrelationships among motivation and key organizational outcomes such as satisfaction, engagement, organizational commitment, and performance will also be discussed. Prerequisite(s): PSY 101
Course Offered: Fall
Credits: Credits:3 (3,0)

PSY 251 Developmental Disabilities: History and Service Provision
In this course, students will learn about the needs and challenges faced by people with developmental disabilities. The course will cover developmental disorders including, but not limited to, cerebral palsy, autism, epilepsy, and intellectual disabilities. Students will explore the social, cognitive and behavioral limitations associated with each disorder. This course will focus on understanding the complex needs of people with developmental disorders and the value of providing them with functional, supportive, and individualized services. The course will also explore the history of service provision to people with developmental disorders, the changes that have occurred in those services over the last four decades, and current standards of care. The course will outline the ethical and legal issues involved in service provision. Heavy emphasis will be placed on viewing developmental disabilities through functional and behavioral perspectives. Prerequisite(s): PSY 101
Course Offered: Fall
Credits: Credits:3 (3,0)

PSY 252 Adult Development
This course will deal primarily with the psychological correlates of development and transitions during adulthood. Specifically, the course will focus on such topics as what it means to be an adult, the meaning of marriage, the meaning of work, being a parent, divorce, the empty nest syndrome, mid-life crisis, retirement, and facing death. Biological and social factors will be taken into consideration, as will psychological theories and individual responses to stages and passages throughout adulthood. Prerequisite(s): PSY 101.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 253 Life Span Development
This course provides a comprehensive overview of normal human development throughout the life span. It will apply a scientific and research perspective to understanding both age-related change and consistency. The course will examine physical, cognitive, social and emotional development at every stage of life, with an emphasis on continuity and discontinuity of development as we progress from one stage of life to the next. Additionally, students will learn about those theories and research methods which are most pertinent to the study of lifespan development. Prerequisite(s): PSY 101.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 255 Topics in Psychology
This course will enable students to explore a specific subfield or topic of interest in Psychology, in a challenging atmosphere, with emphasis on student participation and written assignments. The subject for a particular semester will be announced prior to registration. Possible topics include but are not limited to: Consumer Behavior, Health Psychology, Psychology and the Law, Sport Psychology, and Parapsychology. Prerequisite(s): PSY 101.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 257 Teaching of Psychology
This course is designed to expose students to current thinking about teaching and learning and the underlying content in the field of psychology. In addition, it aims to promote understanding of psychology as a profession as it relates to a career in academia. This is accomplished by offering students a unique opportunity to attend a professional conference on the Teaching of Psychology. During the conference students will have the unique opportunity to listen to, and participate in presentations on some of the newest ideas in the teaching of Psychology. In many cases the presentations they hear will be the first time the ideas have been presented in public. Students will be able to observe and interact on both a formal and informal level with a group of professional Psychologists. This course is designed especially for students who have expressed an interest in continuing in the field of Psychology and/or teaching. However, it can be a valuable experience for virtually all students, regardless of their career plans. Note: Students cannot get credit for PSY 257 and 257W; PSY 257W can be used to fulfill the writing intensive requirement. Prerequisite(s): PSY 101.
Credits: Credits:3 (3,0)

PSY 265 Culture and Cognition
This course explores the methods, research, and theory in the field of culture, cognitions, and psychology in general. The main aim of the course is to introduce and familiarize students with the role of culture across a variety of psychological areas including perception, cognition, emotion, developmental processes, as well as social and abnormal behavior. The course is organized into three, inter-dependent modules. The first module concerns the exploration of culture as a determinant of one's socialization and development of personality. The second module provides an excursion into the role of culture in cognition; the way we think, perceive and organize

our knowledge. The third module explores anthropological works on morality, religion, ritual, and emotion. Prerequisite(s): PSY 101
Credits: Credits:3 (3,0)

PSY 280 Preparation for Graduate Training in Psychology
This course will provide those Applied Psychology majors who are considering graduate training in psychology with the opportunity to explore the various specialties in psychology (and related fields) as well as the graduate training required by each subfield. Students will explore their own interests while simultaneously researching and being provided with information regarding the many types of graduate training available. Self-assessment regarding standardized entrance examinations such as the GRE will be provided. Developmental plans will be generated based on self-assessment results. Applied Psychology majors who are considering graduate training are encouraged to take this one credit elective course during their sophomore year of the program. Course grading is Pass/Repeat. Prerequisite(s): PSY 101, Applied Psychology major
Credits: Credits:1 (1,0)

PSY 300 Forensic Psychology
This course introduces the student to the study of forensic psychology, a discipline that applies psychology to the law and the criminal justice system. Topics to be covered include: the psychologist's role in the criminal courts, ethical dilemmas of psychologists working in the criminal justice system, psychological perspective on the nature of criminality and the investigation of crime, criminal profiling, the effects of psychological empirical research on the outcome of criminal trials, and the psychology of the police, witnesses, offenders, and victims. Other new research topics in the field, such as the use of brain fingerprinting technology to determine criminal culpability will also be explored. Students cannot receive credit for both CRJ 300 and PSY 300. Prerequisite(s): PSY 101 or CRJ 100
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 301 Learning
This course examines the principles and theories of learning including the methodology and evaluation of research pertaining to learning processes. Topics will include a broad range of learning paradigms, from relatively simple processes such as classical conditioning and operant conditioning, to more cognitively complex processes such as concept formation and schema development. The research describing information acquisition, transfer, and forgetting will be reviewed. In addition, the influence of conditions such as motivational factors, will be examined. Prerequisite(s): PSY 101
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 304 Multicultural Psychology
Reflecting the 21st century global theme of acculturation, PSY 304 will focus on the ways in which the study and practice of psychology intersect with race, culture, and diversity. Topics include racial/ethnic/religious group differences, cultural norms, gender and sexual orientation issues, family, structure, and identity development. Primary focus will be given to the ways that race and culture contribute to disparities in access to mental health treatment as well as differences in beliefs about mental illness and its treatment. Consistent with an applied psychology approach, the student will develop an understanding of how diversity issues affect the workplace, i.e., discrimination in hiring/firing practices, affirmative action laws, multicultural competence, and sensitivity training. Prerequisite(s): PSY 101.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 307 Psychology of Women
This course is about being female in American culture. The purpose of the course is to examine the lives of girls and women from a feminist psychological perspective. It addresses the biological, psychological, and socio-cultural factors influencing women's behavior, thoughts, and feelings. The course is "woman-affirming" as it will examine and validate women's experiences and perspectives. The course will highlight how race, class, and sexual orientation intersect with gender to affect women's lives. Topics will include: behavioral and psychological gender differences and their origins; concepts of femininity and gender stereotypes; pregnancy, childbirth and motherhood; women, achievement and work; violence against women; women and mental health (disparity in diagnosis and treatment); and feminist psychology. Prerequisite(s): PSY 101 or PSY 131
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 309 Sport Psychology
Sport psychology examines psychological constructs that influence athletic participation and performance. Topics covered include personality, attribution and cognition for performance, motivation, goal setting, arousal and anxiety, the predictors of aggression through competition, stereotypes and prejudice, team cohesion, effective approaches to psychological skills training, leadership, coping with burnout and injury, and the prevalence of drug abuse and eating disorders in athletes. This course is equivalent to HPW 310 Sport & Exercise Psychology. You cannot get credit for both PSY 309 and HPW 310. Prerequisite(s): Any 200-level or above Psychology course or Permission of the Department Chairperson.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 311 Organizational Behavior
This upper-division course presents the concepts of organizational behavior and structure as well as topics relating to motivation content and process theories; group communications and dynamics; decision making; causes and resolutions of organizational conflicts; and factors pertaining to influence, power and politics in organizations. Note: Students cannot get credit for PSY 311 and 311W; PSY 311W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Psychology Department. Prerequisite(s): BUS 109 or PSY 101.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 312 Psychology of Leadership
In this course we will examine leadership theories and approaches to leadership as well as personal and organizational leadership development. The essential knowledge, skills, and abilities of effective leaders are examined, such as managing conflict, facilitating communication, and leading groups and teams. Students will be encouraged to examine their own leadership potential as they complete self-assessments and participate in leadership exercises. This course provides students with a greater understanding of the theory, research, techniques, and current and future issues in the field of leadership through an experiential learning approach. Topics include the trait approach, the skills approach, ethics, transformational leadership, gender and leadership, the relationship between culture and leadership, and team leadership. Prerequisite(s): PSY 101 and Junior-level status.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 315 Abnormal Psychology
In this course the student will learn about concepts, theories, and issues in psychopathology (the study of mental illness and behavioral disorders). Topics may include historical background, mental health professionals, legal issues, normality/abnormality, etiology/assessment/diagnosis/therapy, anxiety/stress/depression, personality disorders, sexual deviance, schizophrenia, neurological dysfunction, substance abuse, and psychophysiological disorders. The applications of psychology to personal problem solving will also be explored. Prerequisite(s): PSY 101
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 316 Atypical Development
In this course students will explore developmental deviations that result in disorders of childhood focusing on neurodevelopmental disorders (intellectual disability, autism spectrum disorder, attention-deficit/hyperactivity disorder, and specific learning disorder) and psychopathology (anxiety, mood, and conduct disorders). Developmental theories will be utilized to analyze disorders at the genetic, brain, behavioral, and cognitive levels. Emphasis will be placed on examining neurobiological and environmental factors contributing to disorders of childhood. The final portion of the course will focus on how atypical development may contribute to our understanding of typical development. Prerequisite(s): PSY 232
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 317 Organizational Development
This course examines the behavioral science based theories, strategies and interventions that organizations use to execute planned, organization-wide changes to increase organization effectiveness and health. Theoretical models and processes will be reviewed and used to evaluate an organization's capacity to improve and change. The course is structured to cover the background, process, and content of organizational development. Real–world examples of organizational development will be presented

to illustrate current and best practices used by modern organizations.
Prerequisite(s): PSY 101
Credits: Credits:3 (3,0)

PSY 318 Political Psychology
In this course, we examine the psychological bases of people' s political beliefs and actions. Political psychology is an interdisciplinary field that blends theories and approaches from political science and social psychology to examine the ways in which human psychology affects and is affected by overarching political institutions. We will go beyond describing what happens in politics (e.g., who won an election) or how it happened (e.g., who voted for whom) and instead identify explanations for why we observe certain political behavior by looking at the psychology of individuals. For example, what causes people to make decisions and form attitudes-and sometimes change their minds? Or why do individuals identify with certain political groups and not others? This course provides an introduction to the theories, methods, and findings of scientific research in political psychology that aim to explain these processes and help us to apply their insights to make sense of political behavior in the United States. We will cover a range of topics that help us to understand the psychological bases of political behavior, such as attitudes, ideology, personality, emotions, morality, knowledge, and intergroup dynamics like identity politics. Prerequisite(s): PSY 101 or POL 250 Credit(s): 3
Credits: Credits:3 (3,0)

PSY 320 Sensation and Perception
This course will survey the experimental psychology of sensory and perceptual process and behavior. Theories and processes relating the transformation of physical energies (such as light and sound) to psychological experiences (such as seeing object and hearing noises) will be discussed. While the research examined will primarily focus on the visual and auditory systems, the other sensory systems will be discussed as well. The emphasis will be on the contribution of behavioral science to understanding subjective experience of physical and social phenomena. Prerequisite(s): PSY 101.
Credits: Credits:3 (3,0)

PSY 321 Child Cognitive Development
This course will examine how children's thinking develops from infancy through early childhood. Biological, social-cultural, and information processing perspectives will be reviewed in light of how cognition develops and changes over the early stages of life. This course will cover various domains of cognition including executive functioning, memory, language, intelligence, and social cognition. Finally, different populations will be considered to better understand the unique role of not only nature and nurture, but also how the two interact to influence development. Prerequisite(s): PSY 232 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 322 Understanding Neurodiversity: Autism Spectrum Disorder
Autism spectrum disorder (ASD) is a neurodevelopmental disorder characterized by differences in social communication, social interaction, sensory processing, and repetitive behaviors/restricted interests. Autistic individuals represent a wide spectrum of presentations, abilities, and interests; yet this diversity is rarely accurately captured and represented in modern popular writings and media. In this seminar we will draw upon the fields of developmental psychopathology, social cognition, and social/affective neuroscience to discuss and critically examine the history of and current research into the causes (etiology), types (nosology), characteristics (symptomatology), prevalence, and treatment of autism spectrum disorder. Successful completion of the course requires students to gain a broad-based understanding of the history and current knowledge regarding autism spectrum disorder as well as engage in critical, independent thinking and thoughtful evaluation of contemporary research and modern popular coverage in this area. Prerequisite(s): (PSY 241 or PSY 232 and PSY 315) or (PSY 253 and PSY 315)
Credits: Credits:3 (3,0)

PSY 323 Professional & Ethical Issues for Direct Support Professionals
This course explores the professional and ethical responsibilities of Direct Support Professionals (DSPs). Students will examine the principles of ethics, community inclusion, crisis prevention, and the promotion of individual rights. Emphasis is placed on developing practical skills and strategies to support individuals effectively and professionally. Through interactive discussions, case studies, and research-based evidence on best practices, students will gain the tools needed to navigate the complexities of direct support roles. Prerequisite(s): PSY 240 and PSY 241
Credits: Credits:3 (3,0)

PSY 324 Psychological Measurement and Assessment
An analysis of the theory and practice of psychological measurement and assessment including the implications of psychological measurement in society and institutions such as schools, the workplace, clinical populations and other groups with special needs. Topics will include overview and history of the field, foundations of psychological testing and psychometrics, the assessment of ability, the assessment of personality, the assessment of interest and vocational choice, and ethical /social/cultural issues of psychological assessment. Prerequisite(s): PSY 101.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 325 Principles of Survey Research
This course covers the basic principles of survey research related to the design, evaluation, implementation, and analysis of surveys. Students will be introduced to the skills and resources needed to conduct quality survey research. The course is focused on the Tailored Design Method and emphasizes the customization of survey procedures for each survey situation. The course will cover the complete procedure of survey research including an introduction to different types of surveys, the development of survey instruments, an evaluation of reliability and validity, guidelines for implementation, sampling procedures, methods to increase response rate and reduce errors, and data entry, analysis, and reporting. Prerequisite(s): PSY 348
Course Offered: Winter
Credits: Credits:3 (3,0)

PSY 326 Introduction to Behavioral Health Science
Behavioral Health Science is the scientific study of the ways that human behavior can affect health/mental health status and health/mental health outcomes. Introduction to Behavioral Health Science will explore how human actions, cognitions, relationships, interactions and systems affect health, well-being, and quality of life. This course will examine the integration of mental health care and health care from a historical, practical, and policy perspective. Students completing the course will understand the significance of health care policy changes as they relate to psychology, and the dramatic shift in thinking about how and where health/mental health care can be integrated and administered. Prerequisite(s): PSY 315
Credits: Credits:3 (3,0)

PSY 328 Introduction to Human Factors
This course will provide an introduction to the field of human factors psychology. Human factors psychology is the application of the body of scientific facts about human characteristics to the design, operation and organization of human machine systems. Human-machine systems can range from simple consumer products to complex arrangements of hardware, software and personnel, such as aviation systems. Human factors knowledge, methods and techniques will be surveyed with an emphasis on ensuring that the systems, equipment, personnel tasks and work environment are compatible with the human sensory, perceptual, cognitive and physical attributes of the personnel who function within the human machine system. Prerequisite(s): PSY 101.
Course Offered: Spring
Credits: Credits:3 (3,0)

PSY 330 Organizational Training and Development
An upper level offering, this course will provide a greater understanding of the theory, research, techniques, and current and future issues in the field of organizational training and development through an experimental learning approach. Topics shall include training systems, needs analysis, organization intervention, program evaluation, adult learning theory, cognitive issues, conditions for learning transfer, instructional techniques and current social and organizational issues in training. Prerequisite(s): PSY 101.
Course Offered: Fall, Winter, Spring
Credits: Credits:3 (3,0)

PSY 331 Industrial / Organizational Psychology
Students will explore how the science and practice of psychology is applied in the world of work and organizations. Among the topics that will be examined are the history and research methodology of industrial/organizational psychology, job analysis, employee selection, performance evaluation, training, work motivation, job satisfaction, leadership, group

dynamics, and organizational development. The course will highlight emerging trends in the modern workforce and examine how these changes will impact research and practice in today's organizations. Students will examine the factors influencing cross-cultural diversity and globalization, the theoretical and practical implications of these workforce trends, and how current organizational theories and practices apply to cultures outside of the United States. Implications for the full range of topics discussed in the course will be examined including how cultural diversity and globalization affect employee selection procedures, group dynamics, preferences for leadership, training needs, work motivation, and organizational development. Prerequisite(s): PSY 101.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 340 Behavior Analysis Modification
An analysis of the general principles, theories and application of conditioning and learning in humans. The application of the theories of behavioral analysis to human problems will be explored. Behavioral interventions using the principles of classical conditioning, operant conditioning and modeling will be presented. Particular emphasis will be placed on behavioral analysis and intervention in settings such as mental health institutions, education, business organizations and families. Prerequisite(s): PSY 101.
Credits: Credits:3 (3,0)

PSY 345 Human Factors: Systems Analysis and Design
This course will address the systems engineering approach to system design and the role of the human factors professional in that process. The human methods and techniques that are applied to the development of system requirements, allocation of functions to human and machine subsystems, the analysis of human task and work requirements, analysis of staffing requirements, the design control centers to support the human tasks, and methods of system evaluation, verification, and validation will be examined. This course will require students to apply the concepts and methods discussed to an actual design project as part of a design team. Prerequisite(s): PSY 101.
Credits: Credits:3 (3,0)

PSY 348 Statistics for Psychology
This course will examine the basic descriptive and inferential statistics used in the behavioral and social sciences. Topics will include the organization of data, measures of central tendency and variability, correlation and regression, hypothesis testing, and various parametric and nonparametric tests of significance including t-tests, ANOVA, and chi-square analysis. In the computer lab component, students will focus on the interconnections between theory, statistical techniques, and research methods in order to identify the appropriate statistical tests to analyze data and reach objective conclusions regarding research questions in the social sciences. Computer lab sessions will also provide practice in using statistical software for data summarization, presentation, and analysis. Prerequisite(s): PSY 101, MTH 110 and Junior level status
Course Offered: Fall, Spring
Credits: Credits:4 (4,0)

PSY 350 History of Psychology: Study Abroad in Europe
This course will provide a unique academic and cultural excursion into the work of some of the pioneering philosophers and psychologists who shaped the development of psychology. The on-campus classroom portion of the class will cover a variety of topics including but not limited to: tracing the evolution of psychology as a science; exploring the role of European philosophers, physiologists and psychologists in shaping psychology. The study-abroad portion will expose students to the historical and cultural context of those pioneers that helped to form their philosophies and theories. Some of the pioneers whose psychological legacy will be discussed in great detail are particularly of British, German, Swiss, or Austrian origin. Prerequisite(s): PSY 101 and permission from the Department Chair
Credits: Credits:3 (3,0)

PSY 355 Advanced Topics in Psychology
We have, until now, offered special topics courses only at the 200-level, a remnant of the time when Farmingdale was largely an associate's degree granting institution. Now that we need to ensure that students have sufficient 300-level courses to complete their degrees, we would like to be able to offer more challenging, more in-depth, special topics courses designed for upper-division students, that will count towards meeting their degree requirements. We will retain a 200-level special topics course (PSY 255) in order to offer unique classes at the lower-division level. Prerequisite(s): Any 200- or 300- level psychology course with a grade of C or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

PSY 360 Research Methods
This course will present the scientific method within the context of applied psychology. Research techniques and methods will be examined for the formulation of hypotheses, development of testable objectives, experimental design, subject selection, data collection, data analysis and interpretation, and report preparation. This course will focus on laboratory based methods and simple statistical procedures for the analysis of data. Students will apply the concepts and methods in laboratory exercises. Prerequisite(s): PSY 348
Course Offered: Fall, Spring
Credits: Credits:4 (4,0)

PSY 364 Introduction to Biopsychology
This course is designed to introduce students to the biological underpinnings of behavior. The first part of the course will focus on building a foundation in neuroscience and will cover chapters on neuroanatomy (organization of the nervous system, major brain structures and their functions), neural signal transmission (how neurons communicate with each other) and sensory and motor systems (how the nervous system processes information and interacts with the environment). The second half of the course will be dedicated to understanding the relationship between complex human behaviors and brain function, and will cover topics such as the neurobiological underpinnings of learning and memory, emotion, stress, drug addiction and psychological disorders. Students who have received credit for PSY264 cannot receive credit for this course. Prerequisite(s): Junior standing. PSY 101, and BIO 121 or BIO 123 or BIO 131 or BIO 166 or BIO 170 or BIO 197
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 365 The Aging Brain
In this course, students will be introduced to age-related changes that occur in the human brain. The course will be divided into three units: the first will provide an overview of the cognitive changes that occur during normal aging and the biological mechanisms that underlie the aging process. The second will focus on abnormal changes in an aging brain, including an examination of age-related neurodegenerative diseases such as Alzheimer's disease and Parkinson's disease. The final portion will center on the influence of lifestyle factors, such as exercise, nutrition and cognitive stimulation, on the aging process. Prerequisite(s): PSY364 OR BIO365 with a grade of C or higher
Credits: Credits:3 (3,0)

PSY 372 Cognitive Psychology
This course covers the psychological study of human information processing in terms of structure, process, and application. The representation of knowledge in memory is addressed as is the cognitive processes used for information acquisition, information retrieval, and forgetting. The cognitive processes of attention, pattern recognition, language, comprehension, and thinking will be reviewed in terms of their application to cognitive activities such as decision-making, reasoning, problem solving, and creativity. The application of cognitive theory to artificial intelligence is also discussed. Prerequisite(s): PSY 101 and any 200-level PSY course.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

PSY 375 Mentoring Youth
This course will introduce students to mentoring theories via a developmental lens. Students will examine the role of the family and peers in child and adolescent development. Students will learn various mentoring techniques which they will apply to mentoring a child or adolescent throughout the semester. Prerequisite(s): PSY 232
Course Offered: Spring
Credits: Credits:3 (2,0,2)

PSY 405 Ergonomics and Biomechanics
This course will examine the scientific knowledge related to human ergonomics, anthropometry, and biomechanics. The measurement of human work, physiological characteristics and movement will be presented. The application of such knowledge to the design of devices, systems, and environments for use by people will be discussed. The contribution of

ergonomics and biomechanics to the improvement of safety, productivity, and quality of work will be presented. Prerequisite(s): PSY 328.
Credits: Credits:3 (3,0)

PSY 410 Individual and Group Counseling
This course will explore what counseling is, who is a counselor, and what is known about changing behavior in both individual and group settings. Historical concepts of counseling will be examined as well as the scientific foundations of counseling. Research findings related to counseling techniques will be presented and analyzed. The course will focus on a variety of counseling approaches, the therapeutic relationship, legal and ethical issues, and the realities of therapeutic practice. Cultural influences on behavior will be emphasized as a way of understanding and helping clients from diverse backgrounds. Prerequisite(s): PSY 315.
Course Offered: Fall
Credits: Credits:3 (3,0)

PSY 414 Applied Personnel Psychology
This upper level offering is designed to provide students with the tools for understanding the underlying theory, research and techniques of personnel psychology. It will provide the background for understanding the practical application of the concepts and techniques studied. This will be accomplished through a combination of lectures, group projects involving application of the principles of personnel psychology, group presentations of the projects and classroom exercise. Prerequisite(s): PSY 331.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 420 Advance Topics in the Study of the Human Mind and Cognition
This course will provide an excursion into the most current approaches and perspectives in the field of cognitive science, neuroscience, and cultural studies. The class will cover a variety of topics such as: embodied cognition, sensory deprivation and its effects on cognition, multisensory integration, evolution of cognition and culture, and the role of cognition in rituals and religions, morality, and other topics. Prerequisite(s): PSY 372
Credits: Credits:3 (3,0)

PSY 430 Introduction to School Counseling
In this course students will be introduced to the role of the school counselor and the relationship of school counseling to the educational mission of school. The following school counseling topics are addressed in this course: perspectives and practices for school counseling in the 21st century, multicultural and diversity issues impacting school counseling, and an overview of counseling theory as applied to the child and adolescent in a school setting. Candidates will explore the school counselor's work in the context of leadership, advocacy, collaboration, consultation, coordination of services, multiculturalism and working with diverse student populations, technology and the use of data to inform decisions. Prerequisite(s): PSY 315 with a grade of B- or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

PSY 431 Social Work: Issues in Professional Practice
Social work: Issues in Professional Practice examines the historical development of the profession of social work. Specifically, the course will cover the mission, philosophy, ethics, values, diverse fields, and ethnocultural perspectives in social work. This course integrates knowledge of social work practice, values, ethics, social welfare policy, and social justice issues. Students will learn how social workers engage in generalist practice and how social work is applied with individuals, groups, and communities. Students will also explore current topics and career opportunities in the field of social work. This course does not lead to a degree or licensure in social work. Prerequisite(s): PSY 315 with a grade of C or higher.
Credits: Credits:3 (3,0)

PSY 440 Human Factors Psychology/Internship/Senior Project I
This course will provide seniors in the Human Factors Concentration with the opportunity to apply human factors knowledge and methods in an actual work environment. A variety of options will be available for completion of this course: internship, research assistantship, or independent project. In an internship, the student will work in a local business, laboratory, or service organization. As a research assistant, the student will work with a faculty member as an assistant in their ongoing research or consulting. Alternatively, students may develop an independent project under the supervision of a faculty member. The selection of which option is best will be made by the student and their advisor based on which best meets the student's educational and career goals. Regardless of the option selected, each student will attend seminars and complete a research or design project. Prerequisite(s): Senior Status in Human Factors Psychology Concentration.
Credits: Credits:3 (1,0,6)

PSY 441 Human Factors Psychology Internship/Senior Project II
This second Internship/Senior Project course will provide seniors in the Human Factors Concentration with the opportunity to apply human factors knowledge and methods in an actual work environment. A variety of options will be available for completion of this course: internship, research assistantship, or independent project. In an internship, the student will work in a local business, laboratory, or service organization. As a research assistant, the student will work with a faculty member as an assistant in their ongoing research of consulting. Alternatively, students may develop an independent project under the supervision of a faculty member. The selection of which option is best will be made by the student and their advisor based on which best meets the student's educational and career goals. Regardless of the option selected, each student will attend seminars and complete a research or design project. Prerequisite(s): PSY 440.
Credits: Credits:3 (1,0,6)

PSY 442 Applied Psychology Senior Project: Professional Development
This course will provide seniors in the Applied Psychology Program with the opportunity to apply psychology knowledge and methods in an actual work environment. A variety of options will be available for completion of this course: internship, research assistantship or independent project. In an internship, the student will work in a local organization. As a research assistant, the student will work with a faculty member as an assistant in the faculty member's ongoing research and/or consultation with organizations. Alternatively, the student may develop an independent project under the supervision of a faculty member. The selection of which option is best will be made by the student and their advisor based on which option best meets the student's educational and career goals. Regardless of the option selected, each student will attend seminars and complete a research or application project. Prerequisite(s): Senior Status in Applied Psychology Bachelor's Program or Permission of Department Chairperson
Course Offered: Fall, Spring
Credits: Credits:3 (1,0,6)

PSY 443 Applied Psychology Senior Project II:Career Planning
This second Internship-Senior Project course will provide seniors in the Applied Psychology Program with the opportunity to apply psychology knowledge and methods in an actual work environment. A variety of options will be available for completion of this course: internship, research assistantship or independent project. In an internship, the student will work in a local organization. As a research assistant, the student will work with a faculty member as an assistant in the faculty members' ongoing research and/or consultation with organizations. Alternatively, the student may develop an independent project under the supervision of a faculty member. The selection of which option is best will be made by the student and their advisor based on which option best meets the student's educational and career goals. Regardless of the option selected, each student will attend seminars and complete a research or application project. Prerequisite(s): Senior Status in Applied Psychology Bachelor's Program or Permission of department Chairperson
Course Offered: Fall, Spring
Credits: Credits:3 (1,0,6)

QUALITY ASSURANCE & REGULATORY (QRA)

QRA 500 Food, Drug and Cosmetic Act
This course is primarily an introduction to the Food Drug and Cosmetic Act and the regulation of foods, drugs, biologics and devices by the U.S. Food and Drug Administration (FDA). Students will learn the basic statutory and regulatory authorities under which the FDA operates. Because the practice of food, cosmetics biologics and drug law occurs in a rapidly changing technological, legal, and policy environment, this course aims to give the student the ability to keep on top of current trends that they will use and encounter in their profession.
Credits: Credits:3 (3,0)

QRA 501 Drug Development: Discovery to Delivery
This course is an overview of product development from discovery through FDA marketing approval. Students will learn the stages of discovery, preclinical, clinical and approvals for drugs, medical devices, and biologics.

Students will review the process of development and the interrelationships linking the various disciplines and will be introduced to regulations governing the process, including interactions with FDA, ICH, and other regulatory agencies.
Credits: Credits:3 (3,0)

QRA 502 GxP Fundamental: Good Practices in Regulated Industries
This course provides a comprehensive overview of GxP (Good Practice) regulations and their application across regulated industries, including pharmaceuticals, biotechnology, medical devices, and nutraceuticals. Participants will explore the foundational principles behind Good Manufacturing Practice (GMP), Good Laboratory Practice (GLP), Good Clinical Practice (GCP), and other GxP domains. Emphasis is placed on global regulatory frameworks such as those from the FDA, EMA, ICH, and WHO. The course includes real-world case studies and compliance strategies to ensure quality, data integrity, and patient safety in regulated environments. This training is ideal for professionals seeking to enhance their understanding of regulatory compliance and implement GxP standards effectively.
Credits: Credits:3 (3,0)

QRA 510 Quality Audit
The course covers topics in quality assurance principles, audit techniques, audit types, audit presentation and reports. Audit procedures for GMP and GLP for drugs, biologics, devices, food and cosmetics will be addressed with focus on key areas of inspection readiness and quality systems audits. Students will work with Case studies to simulate a real-world audit using he tools and methodologies learned. Prerequisite(s): QRA 500, 501, and 502 Credit(s): 3
Credits: Credits:3 (3,0)

QRA 550 Stat. Analysis for Biotech
This course focuses on equipping students with a comprehensive understanding of statistical concepts and analytical methods for the experimental needs and data encountered in biotechnology. Topics include descriptive statistics, basic probability and random variable theory, sampling theory, statistical inference on one and two samples (confidence intervals and hypothesis testing), categorical analysis, and regression analysis. In addition to the course materials, lecture notes that are prepared using materials from various sources will be used. This course will emphasize the applications pf probability theories and statistical techniques to practical problems relevant to the subject areas of biotechnology. Prerequisite(s): MTH 110 or equivalent, or Program Director Approval Credit(s): 3
Credits: Credits:3 (3,0)

QRA 600 Bioethics for Regulated Indust
This course focuses on bioethical issues arising in the regulation and conduct of regulated industries. Students will gain an understanding of bioethics; the theories and principles underlying its practices and application to regulated industries. Students will discuss how bioethical theories and principles provide the foundation for many regulations. Starting with a brief history of ethics and regulation, Students will explore past and present ethical controversies as they pertain to regulated industries. Topics such as genomic editing, cloning, human biological samples, human trials in pandemics, vaccines, animal use and artificial intelligence in these regulated industries will be discussed and analyzed. Credit(s): 3
Credits: Credits:3 (3,0)

QRA 601 Global Regulatory Affairs
This course provides a detailed analysis of the regulatory processes for new product approvals in drugs, biologics and medical devices outside of the United States. Students gain experience in comparing the European, Chinese and other regulatory registration trends with those of the United States. Students will explore Stringent Regulatory Authorities (SRA), Brazilian regulatory agency (ANVISA) and the World Health Organization (WHO) program by he analysis of topics such as clinical trials, regulatory intelligence, Drug-device combinations and others. Prerequisite(s): QRA 500 and 501 Credit(s): 3
Credits: Credits:3 (3,0)

RESEARCH ALIGNED MENTORSHIP (RAM)

RAM 101 First Year Seminar
This course provides students with foundational psychosocial theories as well as skills in reading, composition, critical thinking, interpersonal communication, and public speaking that they will apply to their academic success and beyond. Students are required to think reflexively about themselves, each other, their academics, and goals through personal journaling, group work, active listening, class discussions, and oral presentations. This course is reserved exclusively for scholars in the Research Aligned Mentorship (RAM) Program. They will learn to turn to their RAM peers and RAM faculty and staff for support. Note: Students completing RAM 101 may not receive credit for FRX101, FYS 101, or FYE 101.
Credits: Credits:1 (1,0)

RAM 102 Collaborative Learning Workshop
Collaborative Learning Workshops are an integral part of the Research Aligned Mentorship (RAM) program. In the Workshops, students master material in challenging foundational courses such as Mathematics. Faculty facilitators provide worksheets that students – organized in small collaborative working groups – use to solve problems while deepening their understanding of course material, acquiring strong study skills, and developing support groups. Enrollment is restricted to entering first year students who have been selected to participate in the Research Aligned Mentorship (RAM) program and who are enrolled in a foundational course to which a collaborative learning workshop is attached.
Course Offered: Fall, Spring
Credits: Credits:1 (1,0)

RAM 110 Leadership Theories and Mentorship Practices
This course is designed to provide students with the necessary skills to lead and mentor peers within the campus community and beyond. With a blend of lectures, discussions, case studies, and real world applications, students will explore key leadership theories, communication strategies, and mentorship techniques. The course will also highlight the importance of self-awareness, emotional intelligence, ethical decision-making, and cultural competency in leadership and mentorship roles.
Credits: Credits:1 (1,0)

RAM 201 Sophomore Year Introduction to Research
RAM 201 is a course reserved exclusively for students in the Research Aligned Mentorship Program (RAM) that will introduce sophomores to research and graduate study in preparation for a faculty-mentored research experience. Throughout the course, students will be responsible for written reflections on scholarly journal articles. The course will culminate in a semester-long project that engages the student in writing a research proposal that requires students to read and summarize scholarly articles accessed through the college's electronic library databases. The research proposal will be evaluated as a poster presentation which is delivered orally in class at the end of the semester. Prerequisite(s): RAM 101
Course Offered: Fall, Spring, Summer
Credits: Credits:2 (2,0)

RAM 301 Transfer Year Introduction to Research
This course assists graduating students in adjusting to career and post-graduate endeavors after Farmingdale. It will continue to prepare students for careers, research, and graduate studies. Students will become familiar with what a research career, post-graduate study, or intended career pathway would entail. Through personalized guidance, students will craft individual road-maps to graduation and beyond. This course is intended to help the student to synthesize skills and knowledge learned in other courses to apply in real-life situations. By the conclusion of the course, students will identify opportunities and plans for further educational and professional development. The course culminates in a presentation of their professional portfolio, that they can utilize outside of the classroom. Prerequisite(s): RAM 201 and 60 credits earned
Course Offered: Fall, Spring
Credits: Credits:1 (1,0)

RAM 303 Research Experience
This hands-on research experience with a faculty mentor is the culminating experience for students enrolled in the Research Aligned Mentorship (RAM) program. Students will be placed in research experiences on the Farmingdale Campus or off-campus in major universities, research laboratories, businesses, industry, government, horticultural gardens, and other settings that fit their academic interests and career goals.
Course Offered: Fall, Spring, Summer

Credits: Credits:3 (0,0,6)

RAM 306 Research Experience
This hands-on research experience with a faculty mentor is the culminating experience for students enrolled in the Research Aligned Mentorship (RAM) program. Students will be placed in research experiences on the Farmingdale Campus or off-campus in major universities, research laboratories, businesses, industry, government, horticultural gardens, and other settings that fit their academic interests and career goals. Prerequisite(s): RAM 201 or 301
Course Offered: Fall, Spring, Summer
Credits: Credits:6 (0,0,15)

RAM 309 Research Experience
This hands-on research experience with a faculty mentor is the culminating experience for students enrolled in the Research Aligned Mentorship (RAM) program. Students will be placed in research experiences on the Farmingdale Campus or off-campus in major universities, research laboratories, businesses, industry, government, horticultural gardens, and other settings that fit their academic interests and career goals. Prerequisite(s): RAM 201 or 301
Course Offered: Fall, Spring, Summer
Credits: Credits:9 (0,0,24)

RAM 312 Research Experience
This hands-on research experience with a faculty mentor is the culminating experience for students enrolled in the Research Aligned Mentorship (RAM) program. Students will be placed in research experiences on the Farmingdale Campus or off-campus in major universities, research laboratories, businesses, industry, government, horticultural gardens, and other settings that fit their academic interests and career goals. Prerequisite(s): RAM 201 or 301
Course Offered: Fall, Spring, Summer
Credits: Credits:12 (0,0,33)

RUSSIAN (RUS)

RUS 101 Russian I (Elementary)
A beginning course in Russian emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness.
Credits: Credits:3 (3,0)

RUS 102 Russian II (Elementary)
A continuation of Russian 101 emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. Pre-requisites: RUS 101 or upon department evaluation/placement test.
Credits: Credits:3 (3,0)

RUS 3XX Russian Elective
No Description Found
Credits: Credits:3 (3,0)

SPORT MANAGEMENT (SMT)

SMT 110 Introduction to Sport Management
An investigation into the scope of the sport industry; a growing major business enterprise in the United States and in much of the world. Functions of management, skills and attributes required of a sport manager, and roles of a manager are examined and researched. Attention focuses on how the managerial process relates to sport organizations and their products. Students become acquainted with career opportunities in the sport management field. Note: Students must achieve a C or higher in this class to continue on in any course to which it is a prerequisite.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SMT 215 Sport Information Management
The effective management of information is essential to successful business and athlete development in sport related fields. Sport information directors use software to track stats at every level, including high school, college and professional, and then transmit these stats to national organizations. Computer-aided facility, management, financial, operational and accounting systems for the running of sport franchises and fitness clubs, salary capology, and handicap computational systems are just a few of the other applications for information management that will be addressed in this class. Prerequisite(s): BCS 102
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SMT 220 Media and Sport
The course will begin by tracing the history of sport media in the United States beginning with the reporting of early American sports via newspapers, through the radio and television ages, the role cable television played in expanding sports viewership, ending with an analysis of regional sports networks, social media and the on-line streaming of sports. The course will examine the role the Sports Broadcasting Act of 1961 has played in shaping modern media rights contracts including its influence on rights fees and coverage. Additional topics include managing talent and production staff, examining commercial pressures on both athletes and sport properties, and the global sport media expansion so the students can examine current problems while analyzing possible solutions. Prerequisite(s): SMT 110 with a grade of 'C' or higher
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SMT 225 Sport Marketing
An investigation into the decisions necessary to plan, develop, implement and control integrated sports marketing programs. Attention will be directed towards each major element of the marketing industry--advertising, promotion, public relations and sponsorships. The emphasis will be on the marketing of professional and collegiate athletes. Included will be the use of marketing for teams, leagues and special events. The course will also focus on negotiations, contracts and the role of the media. Prerequisite(s): SMT 110 with a grade of 'C' or higher
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SMT 230 Social Media in Sport
This course will explain how social media applications are dramatically changing the sports world, sport business, spectating and therefore the marketing of sports. These changes have appeared in a very short period of time, creating a host of implications for sports media processes and sports organizations as they grapple with athletes' use of these media channels. In addition, the course explores the concepts, tools, and issues surrounding social media and marketing. Current trends in social media will be explored and the course will provide students with a balance between theory and experience. Students will learn about traditional sport marketing/public relations principles as they relate to social media. Prerequisite(s): SMT 110 with a C or higher.
Course Offered: Fall
Credits: Credits:3 (3,0)

SMT 240 Sponsorship, Media and Box Office Administration
This course builds upon SMT 225 Sports Marketing through a more in-depth focus on the revenue-generation components of the sport industry. Students will learn about non-sales selling, the ticket sales process, customer service and customer relationship management, the impact of analytics on ticket pricing, the secondary ticket market, the impact of technology on ticket operations, sponsorship sales, and career opportunities in sales. Students will gain real world experience in ticket sales, promotion and sponsorship sales. Students will engage in a sales training program, and will be challenged to sell tickets and sponsorships. Prerequisite(s): SMT 110 with a grade of 'C' or higher and BUS 131 or SMT 225
Course Offered: Spring
Credits: Credits:3 (3,0)

SMT 304 Sport Finance
This course grounds students in the real world of financial management in sport, showing them how to apply financial concepts and appreciate the importance of finance in sport management and operations. Through classroom presentations, discussions and course assignments, the student will be provided with a solid foundation in financial management, managerial economics, and statistics as they relate to the sport industry. The course content will focus primarily on the spectator sport segment of the sport industry (professional sports, collegiate athletics, Olympic sports, sport facilities, events, and sport agencies). Some of the topics that will be covered are capital, budgeting, asset allocation, market structures, financing of venues including subsidies, salary caps and the effect of collective bargaining agreements on sport organizations. Prerequisite(s): SMT 110 with a grade of 'C' or higher and BUS 102

Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SMT 311 Sport Law
A study of legal issues affecting all aspects of sports, including college, professional and recreational activities. Future professionals within the realm of physical activity and sport need to be aware of the law the many implications it brings to their chosen fields. This class is designed to provide an introduction to various aspects of the law and its influence on sport and physical activity. Prerequisite(s): BUS 202
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SMT 320 Athletic Administration
This course focuses on the organization, administration, and management of physical education and sport. Attention will be directed towards intercollegiate and interscholastic athletics, professional sports organizations and various recreational programs. Emphasis will be placed on organization and leadership theories and program development. The management and supervision as well as the budgeting and purchasing process in the management of athletic facilities will be discussed. Issues of law, risk management and ethics as they pertain to athletics will be explored. Prerequisite(s): BUS 109
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SMT 323 Contracts, Negotiations and Collective Bargaining Agreements in Sport
This course will focus on sports contracts, negotiations of such contracts between teams and players and their agents, negotiation of contracts known as collective bargaining agreements between major sports leagues and player associations, and an overview of certain collective bargaining agreements, including salary caps. At the completion of the course, the student should have a greater understanding of how contracts and the collective bargaining agreements drive the business of sports and the problems faced by management of sports franchises. Prerequisite(s): SMT 110 with a grade of 'C' or higher and BUS 202
Course Offered: Spring
Credits: Credits:3 (3,0)

SMT 326 Sport Writing
In this course students will learn skills in the identification of legitimate angles for sport stories, how to report sport events, develop sport feature stories, and write sport opinion pieces, both for print publication and the web. Students will submit written articles, be required to write on deadline, and develop skills in interviewing. Students will deconstruct published stories and acquire an understanding of the process of assembling a well researched and expertly-crafted sport story. Note: Students completing this course may not receive credit for PCM 326. Prerequisite(s): EGL 102
Course Offered: Spring
Credits: Credits:3 (3,0)

SMT 335 Special Topics in Sport
The course will be offered occasionally and can be taken more than once as titles change. The course will provide a special topic for students as a Sport Management elective course. It will pertain to a general sport topic or a current event that is occurring in the sport industry. Prerequisite(s): SMT 110
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SMT 340 Sport Facility Management
This course focuses on athletic facilities and the complex management involved. Topics include the development, operation, and financing as well as the management and supervision of athletic facilities. Attention will be directed towards public and private arenas, colleges and universities, and health clubs and stadiums. Other topic of special interest and current research will be discussed. Prerequisite(s): BUS 109
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SMT 350 International Sport Management
This course will prepare students for Sport Business and Management on an international scale, including a review of recurring international events like the World Cup and the Olympic Games. In this course we will identify and study the numerous global forces that have given rise to a greater diversity in sport coverage, events and participants. Ultimately we will identify and explore the characteristics that are unique to the international platform of today's audiences, athletes and events. Prerequisite(s): SMT 110 with a grade of 'C' of higher and BUS 109
Course Offered: Spring
Credits: Credits:3 (3,0)

SMT 360 Event Management
This course focuses on Event Management and Event Planning, which is an area of expertise and skill that is highly desirable in the sports and entertainment industry. This course provides the necessary building blocks and fundamentals of event management and event planning. Areas of study include event conceptualization, event staffing, event budgeting, event promotion, event security and overall event planning and management. Upon completion of this course, the student will understand the complexities and interaction required for managing, organizing and operating sport events through theory and application. Prerequisite(s): SMT 110 with a grade of 'C' or higher and BUS 109
Course Offered: Fall
Credits: Credits:3 (3,0)

SMT 365 Sport Sales and Revenue Generation
SMT 365 Sales and Revenue Generation: In the fiercely competitive sports industry, the ability to sell is paramount for success. This course focuses on the sport sales process, emphasizing relationship-building to forge partnerships between organizations and sponsors and fans. Students will explore sales techniques, market analysis, negotiation, and ethical considerations through practical applications and interactive exercises. By mastering these skills, students will be equipped to excel in sport sales, sponsorship, and revenue generation, making them invaluable assets in the dynamic world of sports management. Prerequisite(s): SMT 225
Credits: Credits:3 (3,0)

SMT 370 Research in Sport Management
This course is an undergraduate class on various aspects of research within the context of sport. The course provides a general overview of social research, covering four broad topics: research design, review of literature, data collection, and data analysis. Upon course completion, students will demonstrate the ability to develop a research proposal for a sport-based study. Prerequisite(s): SMT 110 and EGL 310 both with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SMT 409 Strategic Sport Management
Strategic sport management is a means of applying a variety of business strategies to the context of sports development. Geared for upperclassmen, this course focuses on this growing field by developing and assessing the knowledge and skills associated with senior level managers working in private or public sector sports-related institutions. Students will be expected to leverage the knowledge and skills through individual and/or group projects in anticipation of similar responsibilities in their careers. Prerequisite(s): Senior status and SMT 304
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SMT 420 Current Topics in Sport
This course analyzes contemporary issues including topics such as athlete use of performance enhancing drugs, public/private funding of facilities and arenas, gambling (legal/illegal), escalating player/coaches' salaries, violence in sport, legal issues including Constitutional, collective bargaining, antitrust and employment law, NCAA and amateurism, the impact of Title IX, concussion and other sport health issues, media rights and technology, and institutional cheating in sport. Case studies are investigated and students engage in critical thinking and discussions to understand what has created these issues and their implication. Extensive research of current texts and journal articles is required. Prerequisite(s): SMT 320
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SMT 440 Sport Management Internship
Supervised work experience in corporate settings, amateur and professional sport agencies, colleges and universities, and community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor. No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448.

Prerequisite(s): Junior or Senior level status, Department approval, with a minimum GPA of 3.0 and SMT 110 with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 to 3 (1,0,6)

SMT 441 Sport Management Internship
Supervised work experience in corporate settings, amateur and professional sport agencies, community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor. Note: No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448. Prerequisite(s): Junior or Senior higher status with Department approval and a minimum G.P.A. of 3.0 or higher and SMT 110 with a grade of C or higher.
Course Offered: Summer
Credits: Credits:6 (1,0,15)

SMT 442 Sport Management Internship
Supervised work experience in corporate settings, amateur and professional sport agencies, community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor. Note: No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448. Prerequisite(s): Junior or Senior status with Department approval and a minimum G.P.A. of 3.0 or higher and SMT 110 with a grade of C or higher.
Credits: Credits:9 (1,0,24)

SMT 443 Sport Management Internship
Supervised work experience in corporate settings, amateur and professional sport agencies, community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor. Note: No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448. Prerequisite(s): Junior or Senior status with Department approval and a minimum G.P.A. of 3.0 or higher and SMT 110 with a grade of C or higher.
Course Offered: Summer
Credits: Credits:12 (1,0,33)

SMT 445 Sport Management Internship II
Supervised work experience in corporate settings, amateur and professional sport agencies, colleges and universities, and community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor. Note: No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448. Prerequisite(s) required and Junior status or higher, Department approval, with a minimum G.P.A. of 3.0 or higher and SMT 110 with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

SMT 446 Sport Management Internship II
Supervised work experience in corporate settings, amateur and professional sport agencies, colleges and universities, and community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor. Note: No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448. Prerequisite(s) required and Junior status, Department approval, with a minimum G.P.A. of 3.0 or higher and SMT 110 with a grade of C or higher.
Credits: Credits:6 (1,0,15)

SMT 447 Sport Management Internship II
Supervised work experience in corporate settings, amateur and professional sport agencies, colleges and universities, and community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor Note: No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448. Prerequisite(s) required and Junior status, Department approval, with a minimum G.P.A. of 3.0 or higher and SMT 110 with a grade of C or higher.
Credits: Credits:9 (1,0,24)

SMT 448 Sport Management Internship II
Supervised work experience in corporate settings, amateur and professional sport agencies, colleges and universities, and community sport organizations. Students assume leadership roles in various job-related activities and perform administrative tasks in support of activities under an experienced agency supervisor and faculty sponsor. Note: No more than 15 credits may be earned from SMT 440 to SMT 443 and SMT 445 to SMT 448. Prerequisite(s) required and Junior level status, Department approval, with a minimum G.P.A. of 3.0 and SMT 110.
Credits: Credits:12 (1,0,33)

SMT 485W Senior Seminar in Sport (Writing Intensive)
In this capstone course, students may use software and case studies that will simulate the management of a professional franchise and other sports organizations, from an operational, marketing and financial standpoint. Decisions will be made, and results analyzed, to determine if the sport business will succeed. Students will be required to prepare operational, marketing and financial plans in addition to an annual budget, and then analyze the results. This is a writing intensive course. Note: SMT 485W can be used to fulfill the writing intensive requirement. Offered at the discretion of the Sport Management Department Prerequisite(s): Senior level status and SMT 409 and EGL 101 with a grade of C or higher
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOCIOLOGY (SOC)

SOC 122 Introduction to Sociology
This is an introductory course designed to familiarize students with the field of sociology. In addition to learning about the central concepts and major theoretical sociological perspectives, students study human behavior in groups, the organization of social life, the impact of social institutions on individuals, and the process of sociological research. Great emphasis is also placed upon development of students' "sociological imagination" – specifically, the ability to understand the ways that our individual lives are shaped by larger social forces and institutions. NOTE: Students cannot earn credit for SOC 122 and 122W or SOC 122*D SOC 122W can be used to fulfill the writing intensive requirement. SOC 122*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SOC 150 Introduction to Africana Studies
This course is an introduction to the interdisciplinary field of Africana Studies. The course centers African, African American, and Caribbean history, culture, and politics. Students will learn about the political, social, and economic organization of nations, communities, and people from Africa and the African Diaspora. Students will explore key dimensions of Black life throughout the diaspora and learn how African people in the Americas have shaped and contributed to a wide-range of social institutions and challenged public debates regarding citizenship, race, nationality, ethnicity, class, gender, and sexuality. NOTE: Students cannot earn credit for SOC 150 and SOC 150*D SOC 150*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Credits: Credits:3 (3,0)

SOC 200 Introduction to Women's Studies
An interdisciplinary approach that will draw on literature, history, sociology, as well as science and technology, the course will introduce students to issues in gender that cross traditional disciplines. Cultural assumptions about gender will be examined, and students will be encouraged to consider new ways of looking at knowledge in light of new understanding about the ways in which gender constructs beliefs and influences life's realities. NOTE: Students cannot earn credit for SOC 200 and SOC 200*D SOC 200*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SOC 201 Sociology of Education
The course analyzes the American educational system. We examine the ways that schools (including institutions of higher education) serve as agents of socialization, foster social mobility, and transmit knowledge and culture. We also study the school as a bureaucratic organization. Students are encouraged to think critically about their own educational experiences.
Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 220 Sociology of Aging
The course examines the social phenomenon of aging. We look at different theories of aging and discuss the ways that different cultures approach the process of aging. Similarly, we consider class as well as racial/ethnic differences in the social meanings and consequences of aging. Lastly, we devote considerable time to looking at various political, economic, and social issues associated with aging and the elderly.
Credits: Credits:3 (3,0)

SOC 223 Social Issues and Institutions
In this course, students learn about the central social issues and institutions in American life over the last 100 years and the different perspectives on the theories, causes, and consequences of social issues. Utilizing Mills' conception of "The Sociological Imagination", we examine the ways that social issues and institutions impact individuals and communities. Substantial time is also given to critical consideration of the proposed solutions to the various social issues discussed. The final essay assignment requires students to describe the significance of a social issue, consider how the particular social issue impacts them, and describe their capacity to effect change through individual actions and as part of a larger group or community.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SOC 224 Urban Sociology
This course examines the development, processes and problems of urban life, emphasizing urban social processes in contemporary American cities. Although emphasis will be given to contemporary America, historical and cross-cultural comparisons will also be presented. Major sociological theories used to study and explain the metropolis will be presented. Along with relevant research findings; the importance of field work in the urban sociological research is emphasized. Prerequisite(s): SOC 122
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 225 Sociology of the Family
This course examines the family in the United States as a core social institution. We consider theoretical, historical, and cross-cultural aspects of such topics as mate selection, marital dynamics, the changing roles of men and women, parenting and child-rearing, divorce, aging, conflict and violence, alternative lifestyles and family policy. Prerequisite(s): SOC 122
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SOC 228 Society and Health
This course examines the meanings and experiences of health and illness and the ways in which social factors like age, gender, class and ethnicity affect health. We explore the historical development of health professions, including alternative health professions. Significant time is also devoted to understanding the workings of the contemporary American healthcare system. NOTE: Students cannot earn credit for SOC 228 and SOC 228*D SOC 228*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SOC 229 Race and Ethnic Relations
This course provides a sociological perspective on race and ethnic relations. Race and ethnicity are both socially constructed identities that change across time and space. Language, culture, wealth, politics, religion, transnational interactions, and gender all impact the way that racial and ethnic identities are constructed and resisted. In this class we will address how different groups (including African Americans, Caribbean Americans, Latino Americans, Asian Americans, Muslim Americans) that experience racism and discrimination, are also actively developing their communities and adding to the diversity in American society. NOTE: Students cannot earn credit for SOC 229 and SOC 229*D. SOC 229*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 231 Multiculturalism
This course explores the wide variety of cultures that currently exist in the United States. In addition to different racial and ethnic cultures, we also consider class cultures, religious cultures and LGBTQ cultures. Significant time is devoted to examining the values, norms and everyday life of different cultures as well as the ways that different cultures (and the people from those cultures) interact. Multicultural social policy issues and media representations of different cultures are also analyzed. NOTE: Students cannot earn credit for SOC 231 and SOC 231*D SOC 231*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Prerequisite(s): SOC 122
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 235 Mass Media and Popular Culture
This course examines popular culture and mass media in America. Emphasis is on the current state of popular culture and mass media, although historical presentations may be included. Major sociological theories used to study and explain popular culture and mass media will be presented along with relevant research findings. Prerequisite(s): SOC 122
Course Offered: Fall
Credits: Credits:3 (3,0)

SOC 236 Sociology of the Military
This course examines the institution of the military from a sociological perspective. Topics may include, but are not limited to the specific structure of military organizations, the norms of military life, family life in the military, as well as stratification and diversity in the military. Particular attention is devoted to changes in the military over time as well as the future of the American military. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 237 The Sociology of Popular Music
This course will examine American popular music genres including but limited to rock and hip-hop, from a sociological perspective. Specific topics to be examined may include: the role of the music industry and recording companies, ideologies, globalization of American music, intertextuality, music consumption patterns and the influence of new technologies, moral panics, theories of popular music culture, social change, and the social class, and gender implications of popular music. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 238 Youth Culture
This course traces the growth of a distinctive youth culture in American life and imagination since World War II. Topics discussed may include juvenile delinquency, teen sexuality, teen poverty and homelessness, the American high school and college life. Particular attention is also devoted to the ways that films, as well as other mass media forms such as popular music and television shows, represent the lives of American youth.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 240 Gender and Social Change
This course studies changing gender norms and relationships. It will explore the social and historical construction of gender over time and across space, as well as examine how other systems of inequality like race and class shape gender relations. Topics include: changing legal statutes around gender, transformations in the gendered division of labor within the family, and gender in the workplace. Students will examine why these changes have occurred and what they mean for gender politics in our society. NOTE: Students completing this course may not receive credit for ANT 240. Students cannot earn credit for SOC 240 and SOC 240*D (which can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement).
Credits: Credits:3 (3,0)

SOC 245 Technology, Society and Social Change
This course explores the ways in which science, technology, and society create social change. The focus is on the varying benefits, costs, and consequences of these changes across historical eras and cultures. This course carries a hands-on computer component as a requirement.
Prerequisite(s): One course in social science
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SOC 253 Black Popular Cultures
This course examines the development of Black popular cultures in the 20th and 21st century in the United States. Through close readings of text, music, and film, students will discuss the historical roots, current manifestations, and diversity within Black cultures. Topics may include but are not limited to the Black church, the Harlem Renaissance, Hip-Hop, the commodification of Black culture, sororities and fraternities, stepping, drag balls/ballroom, and sexual subcultures. NOTE: Students cannot earn credit for SOC 253 and SOC 253*D SOC 253*D can be used to fulfill the Diversity, Equity, Inclusion,

and Social Justice requirement. Prerequisite(s): EGL 101 and Any Sociology Course
Credits: Credits:3 (3,0)

SOC 270 Topics in Sociology
Courses that range from 270-279 are special topics courses. These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 271 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 272 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 273 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 274 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 275 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 276 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 277 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 278 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 279 Topics in Sociology
These courses explore specialized sociological topics of interest and vary from semester to semester. Students may take multiple special topics courses. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122
Credits: Credits:3 (3,0)

SOC 282 Introduction to Lesbian, Gay, Bisexual, and Transgender, and Queer+ (LGBTQ+) Studies
This course is an introduction to the interdisciplinary field of Lesbian, Gay, Bisexual, Transgender, and Queer+ (LGBTQ+) Studies. We will examine major concepts, theories, and political issues surrounding LGBTQ experience. We will analyze gender identity and human sexuality as social, cultural, and historical constructions. In addition, LGBTQ+ identities have profound implications in economic, cultural, social, and political spheres of life. We will pay acute attention to LGBTQ+ political struggles and their relationships to economy, family, religion, education, law, and medicine. Drawing from fields such as: Sociology, Anthropology, History, English, and Psychology, we will examine the status, experiences, and discrimination against members of the LGBTQ+ and how race, ethnicity, class, and ability also shape these experiences. NOTE: Students cannot earn credit for SOC 282 and 282W or SOC 282*D SOC 282W can be used to fulfill the writing intensive requirement. SOC 282*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 301 Sociology of Violence
This course provides a sociological inquiry into the various manifestations of violence in societies including interpersonal violence such as homicide, rape, and physical assault as well as collective forms of violence such as state sponsored violence, war, genocide, and terrorism. Specific attention will be paid to the sociological causes and effects of individual and collective violent actions. Prerequisite(s): SOC 122 and EGL 102 with a grade of C- or higher
Credits: Credits:3 (3,0)

SOC 303 Sociology of Work and Occupation
This course will focus on the various dimensions of work and the social experience of making a living in the United States and other societies - past, present and future. We consider the large-scale developments related to a rapidly changing global economy, and the implications of these changes for individual workers. Topics discussed include the impact of technological innovations, changing occupational roles and subcultures, the development of the professions and professional ethics, gender roles and work roles, unemployment and underemployment, and the relationship between work and family. Prerequisite(s): SOC 122 and EGL 102
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SOC 304 Sociology of Leadership
What is leadership? Why is it important? What are its conditions? This course will explore the nature of leadership in social groups, analyzing both contemporary and historical examples, especially as these relate to the emergence, maintenance, conditions, and impact of leaders and leadership models. In this context, we consider and apply classical and contemporary sociological theory and research to understand the variety of roles within groups, the sources of group conformity and deviance, the distribution of power and authority, and the ways in which groups change over time. We will also consider how larger structures of inequality, for example, in social class, gender, ethnicity, race, age, and sexual orientation, may impact leadership. Prerequisite(s): Any social science course and EGL 101.
Credits: Credits:3 (3,0)

SOC 308 Black Political and Social Thought
In this course, students will learn a wide-range of Black political theories from the 19th to 21st centuries. Students will be introduced to the ideas of prominent Black leaders who crafted ideas that helped people understand better the origins of racial discrimination and also provided concrete strategies for remedying institutionalized racism. Using an intersectional lens, students will also be introduced to how overlapping systems of oppression such as class, gender, and sexuality shape Black political and social thought. NOTE: Students cannot earn credit for SOC 308 and SOC 308*D SOC 308*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): SOC 1XX or HIS 1XX (before 1865) or HIS 1XX (after 1865) or POL 105 and EGL 102
Credits: Credits:3 (3,0)

SOC 309 Sport in Society
This course analyzes the role of sport in society, especially American society. Particular attention is given to the significance of gender, race, ethnicity, and social class in sports. The course is organized around lectures, film, and discussion. Students are also expected to conduct their own research project. NOTE: Students cannot earn credit for SOC 309 and SOC 309*D SOC

309*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): SOC 122 or SOC 223 and EGL 102.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 311 African American Leadership
This course examines African American political leadership in the United States from the antebellum era through the 21st century. Emphasis is placed on the ideas espoused by a wide range of African American leaders, both male and female, and how these ideas shaped formal organizations, economics, politics, and social relations amongst Americans. Drawing from the sociology of leadership, students will learn and discuss what strategies make some leaders effective and successful. Prerequisite(s): SOC 122 and EGL 102
Credits: Credits:3 (3,0)

SOC 312 Disability and Society
This course examines the social, cultural, and political construction of disability. Drawing on a variety of texts and media sources, we will explore the experiences of (and challenges faced by) people in the disability community. In addition, the class will cover topics, including models and theories of disability, the role of intersectionality in understanding differences in life outcomes, disability in health care, and disability rights movements, with opportunities for students to promote social justice and better accessibility for all. Prerequisite(s): SOC 102 and EGL 102
Credits: Credits:3 (3,0)

SOC 325 Social Inequality
This course examines the nature, causes, and consequences of social stratification. We explore the different theoretical perspectives on inequality, global inequalities, the extent of inequality in America, and the issues of status and mobility. In addition to examining the different class cultures in the United States, we investigate the profound effects of education, class, gender, and race on individual "life chances" (i.e. the ability to achieve power, wealth, status, etc.). NOTE: Students cannot earn credit for SOC 325 and SOC 325*D SOC 325*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): Any 200 level Sociology course.
Course Offered: Fall
Credits: Credits:3 (3,0)

SOC 326 Visual Sociology
Visual Sociology uses cultural imagery to examine and analyze society. This course will explore the use of visual methods to study human behavior. Students will explore how meaning is created and transmitted visually and how visual media can be used to communicate sociological understandings to public audiences. Specifically, students will learn how to conduct visual ethnography and how to use sociological concepts and theories to analyze data. In this experiential learning course, students will use photography as a tool to conduct fieldwork—gathering data about a social justice issue that they have chosen, and presenting those findings in a poster presentation. NOTE: Students cannot earn credit for SOC 326 and SOC 326*D SOC 326*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): Any 200 level Sociology course.
Credits: Credits:3 (3,0)

SOC 329 Social Movements
In this course, students will learn to critically analyze processes of change in society while developing an analytical mind and improving their writing skills. Social movements are collective attempts to change the way people live their lives, how governments govern, and how economic systems produce and distribute goods. We live in a social movement society. Though we are not always aware of the level of activism going on around us, the number and different types of organizations working to create some type of social change is larger than ever before. Globalization and communications technologies have broken down barriers to worldwide participation in movements for change. Understanding how the world is influenced by individuals working together for change is of vital importance. This class focuses on theoretical domains in the sociological study of social movements and general social processes rather than on specific movements. Substantive work on specific movements is used to explain issues such as mobilization, tactics, and ideology, among other factors. NOTE: Students cannot earn credit for SOC 329 and SOC 329*D SOC 329*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): Any 200 level or higher sociology course
Credits: Credits:3 (3,0)

SOC 330 Seminar in Sociology
Courses that range from 330-339 are special topics courses. Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 331 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 332 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 333 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 334 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 335 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 336 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 337 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 338 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 339 Seminar in Sociology
Each semester when the course is offered, a topic of interest will be selected by the department for study in seminar. Please check with the department chairperson and the current course listing for further details. Prerequisite(s): SOC 122 and EGL 102.
Credits: Credits:3 (3,0)

SOC 342 Deviance: Crime, Sex and Drugs
This course explores classic and contemporary definitions and theories of deviance. Special attention is placed on the social functions that deviance serves in society, and the inequalities that emerge in the criminal legal system. Prerequisite(s): SOC 122 or SOC 223 and EGL 102.

Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SOC 343 Social Work and Social Welfare: An Overview
This course introduces students to the profession of social work and the structural evolution of social welfare systems. Students explore social work's mission, core values, and the distinctive skills used to improve well-being and foster a more just society. Through first-person narratives and case studies, students will examine how social workers practice with individuals, families, groups, organizations, and communities across diverse fields like mental health, forensics, child and family welfare, and domestic violence. Students will also critically investigate the historical and political forces that shape social welfare, moving from early charitable models to contemporary frameworks such as restorative justice, community practice, and Anti-racism, Diversity, Equity, and Inclusion (ADEI). The course also addresses modern challenges, including the ethics of Artificial Intelligence (Al), social media boundaries, and the profession's role in addressing contemporary social problems issues such as gun violence. Prerequisite(s): PSY 101 or SOC 122 or Any 200 Level Sociology course, with a grade of C or higher Credit(s): 3
Credits: Credits:3 (3,0)

SOC 344 Sociology of the Body
This course examines the body and embodiment through a sociological lens. Body and embodiment is a subfield of sociology that draws from sociological inquiry and feminist scholarship to understand the social construction of bodies across time and place. This course will examine how ideas about the body are socially and culturally constructed through social institutions like medicine, work, media, and education. We will use theories of body and embodiment to explore intersections of race, social class, sex, gender, sexuality, disability, and body size. We will also learn about social justice movements related to the body and the ways they have pushed for social change. Topics wilt include but are not limited to: incarceration, reproduction and reproductive justice, consumer culture, sports, aging, illness, death and ethical dilemmas relating to the body. Prerequisite(s): SOC 122 and EGL 102
Credits: Credits:3 (3,0)

SOC 345 Investigations in Technology & Society
This course explores how key 21st-century technologies-such as artificial intelligence, social media, biotechnology, renewable energy, the Internet of Things, and those related to communication and transportation-transform societies in the U.S. and globally. Topics may include the digital economy/ workplace, globalization of culture, social media and self-presentation, environmental threats and solutions, healthcare and the body, and smart homes/cities. Students will critically assess both the benefits and risks these technologies pose across cultural, economic, and environmental dimensions. The course requires all students to complete a final research project. Prerequisite(s): SOC 122 and EGL 102
Credits: Credits:3 (3,0)

SOC 350 Global Social Change
This course examines global social change from a sociological perspective. Specifically, the course focuses on the process of globalization, particularly on the challenges international development poses for developing nations. Specific topics may include global income inequality, global poverty, anti-globalization activism, transnational corporations (e.g. Walmart), and the rise of supranational organizations (e.g. World Trade Organization). Prerequisite(s): SOC 122 and EGL 102.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 351 Global Health Systems
This course examines and compares healthcare systems from a sociological perspective in post-industrialized, transitional, and developing societies. Students are required to complete an original research paper/project. Prerequisite(s): SOC 122 or SOC 223 or SOC 228 and EGL 102.
Credits: Credits:3 (3,0)

SOC 352 Environmental Sociology
Environmental Sociology examines the changing relationship between social systems and the environment, and explores how environmental issues come to be defined as social problems. This course examines multiple perspectives within the field--including risk, political economy, consumer studies and social movements-- to understand the range of explanations for environmental degradation and improvement. The first part of the course is dedicated to introducing students to key theoretical perspectives, research methods and historical and contemporary cases in environmental sociology. In the second part, we look at competing explanations for why a meaningful response to environmental problems, such as resource depletion, environmental injustice, and climate change, have failed to materialize and what transformative change might look like. Prerequisite(s): SOC 122 and EGL 102 both with a grade of C or higher
Credits: Credits:3 (3,0)

SOC 360 Sociological Theory
This course examines sociological theory, from its beginnings in the 19th century through its historical development into the 21st century. The theories of classical sociologists such as Karl Marx, Emile Durkheim, and Max Weber will be covered. This comprehensive course will also introduce students to contemporary theory such as feminist theory, gender theory, critical theory, and post-structuralism. This course provides students with an introduction to the theoretical foundations of the discipline of sociology and examines how theory can be applied to better understand the social world. Prerequisite(s): Any 200 Level Sociology course and EGL 102 with a grade of C or higher.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 361 Gender Theory
Gender theory examines how the categories of sex and gender influence our ways of living and thinking. We will examine the prevalence of gender inequality in society and how it might be eradicated. We will also emphasize the ways in which socio-economic position, race, ethnicity, sexual orientation, religion, citizenship, geography, and/or ability interact with gender to shape our experiences. Students will gain better insight into how gender impacts their lives at work, at home, and in public. Students will learn how to apply gender theories to their own lives, identities, and social worlds. NOTE: Students cannot earn credit for SOC 361 and 361W or SOC 361*D SOC 361W can be used to fulfill the writing intensive requirement. SOC 361*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): SOC 200 or 282 or 283 or PSY 230 or 307 and EGL 102 with a grade of C or higher.
Course Offered: Spring
Credits: Credits:3 (3,0)

SOC 362 Sociology of Horror
Sociologists argue that what we fear is mediated by society. The horror genre has often reflected systemic inequalities in the social world, such as classism, racism, sexism, ableism, and heteronormativity. By treating historically marginalized communities as objects of terror, horror media has also shaped real world inequalities by contributing to implicit biases, stereotypes, and discrimination. However, horror has also long been a powerful tool for critiquing inequality and providing social commentary on a variety of political, economic, and environmental crises. In this course, students will apply their sociological imagination to horror media, examining how it relates to social inequality and evaluating its potential as a tool for transformative social justice. Prerequisite(s): SOC 122 or Any 200 Level Sociology course Credit(s): 3
Credits: Credits:3 (3,0)

SOC 363 Immigration Past and Present
Immigration and the resettlement of groups across borders has changed the landscape of American society across time. This course will examine how successive waves of immigrants and their American born descendants are becoming part of American society. The course will present immigration as a gendered, classed, and racialized process to examine gendered differences in migration patterns, restrictive migration law, the impact of war on migration, stratification of immigrant labor, transnational ties abroad, nativist resistance, and religious discrimination. Theoretical perspectives of migration, assimilation, race, and intersectionality will ground our mixed methodology research about the experiences of specific groups. We focus on the different periods of immigration, particularly the great migrations of the late 19th and early 20th centuries, and the post-1965 wave of immigrants from the Caribbean, Asia, Latin America, Africa, and the Middle East. NOTE: Students cannot earn credit for SOC 363 and SOC 363*D SOC 363*D can be used to fulfill the Diversity, Equity, Inclusion, and Social Justice requirement. Prerequisite(s): SOC 122 and EGL 102
Credits: Credits:3 (3,0)

SOC 366 Sociological Research Methods
In this course, we develop an understanding of the different types of research methods used by sociologists (and other social scientists) to study the social world. The class begins with a discussion of the fundamental

concepts of social science research and the ethical issues involved. Students will learn how to conduct basic qualitative and quantitative research - the ability to formulate research questions, methods of research design, strategies for collecting information and data, as well as the ability to analyze and present statistical data. Great emphasis is placed on students doing research projects in and outside of class. Prerequisite(s): Any 200 Level Sociology course.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

SOC 383 Sex, Gender, and Sexuality
This course introduces students to feminist and queer theories about sex, gender, and sexuality. It examines how these categories are socially and culturally constructed, as well as how they affect our lives and shape our social world. Students read a wide range of classic and contemporary sociological texts that examine the differences between sex and gender, explore human sexuality, and analyze how sex/sexuality is a major source of gender inequality. Topics discussed may include: gender dynamics in work and family life, gender norms in dating, gender and media, reproductive justice, gendered violence, masculinities, sex work, transgender and intersex rights, and politics of sex work. Prerequisites: SOC 122
Credits: Credits:3 (3,0)

SOC 407 Field Research in Sociology
This is an advanced course in qualitative research methodologies. Students read, design, and complete a field research project using their data from Sociological Research Methods or research internship. Students will learn advanced sociological analysis through the presentation of classic theories and case studies in class, and will apply them to their research projects. Prerequisite(s): SOC 366 and Senior level status.
Credits: Credits:3 (3,0)

SOC 480 Research Internship I
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): SOC 366 or ANT 366 with a grade of C or higher.
Credits: Credits:1 (0,0,3)

SOC 481 Research Internship I
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): SOC 366 or ANT 366 with a grade of C or higher.
Credits: Credits:2 (0,0,6)

SOC 482 Research Internship I
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): SOC 366 or ANT 366 with a grade of C or higher.
Credits: Credits:3 (0,0,9)

SOC 485 Research Internship II
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): SOC 366 or ANT 366 with a grade of C or higher.
Credits: Credits:1 (0,0,3)

SOC 486 Research Internship II
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): SOC 366 or ANT 366 with a grade of C or higher.
Credits: Credits:2 (0,0,6)

SOC 487 Research Internship II
The research internship provides students with insight into the personal qualities and skills that make a good researcher, as well as learning about the broader impact of scientific discovery. While working alongside a faculty member students will be able to hone their research and analytical skills, through hands-on experiences. Students will create a research plan in consultation with the faculty member and spend 45-135 hours during the semester working on research. While each course design will vary, students will be involved in library research, compiling literature reviews, data collection, and data analysis. Students must either complete a paper or poster at the conclusion of their research internship. Prerequisite(s): SOC 366 or ANT 366 with a grade of C or higher.
Credits: Credits:3 (0,0,9)

SPANISH (SPA)

SPA 140 Spanish for Law Enforcement
It is a beginning language course which covers basic linguistic structures of Spanish. The course differs from the traditional academic course only in its emphasis on developing vocabulary and expressions useful for careers in criminal justice and law enforcement. Both oral and written communication skills will be developed. The course contains realistic dialogues focusing on related themes. Practical application of new structures is provided by vocabulary enrichment, role-playing situations, and other communicative activities. NOTE: Students who have completed SPA 141, SPA 145, or SPA 147 may not receive credit for SPA 140. This course is equivalent to SPA 141, 145 and 147.
Credits: Credits:3 (3,0)

SPA 141 Spanish I (Elementary)
A beginning course in Spanish emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. Note: Students who have completed SPA 140, SPA 145, or SPA 147 may not receive credit for SPA 141. This course is equivalent to SPA 140, 145, and 147.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SPA 142 Spanish II (Elementary)
A continuation of Spanish 141 emphasizing the gradual development of the four language skills: listening, speaking, reading and writing with stress on communicative competence and cultural awareness. NOTE: Students who have completed SPA 146 may not receive credit for SPA 142. This course is equivalent to SPA 146. NOTE: Language courses must be taken in sequential and prerequisite order. Students completing SPA 243 cannot go back to complete a lower level SPA course. Prerequisite(s): 2 or 3 years of high school Spanish or SPA 140 or SPA 141 or SPA 145 or SPA 147.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SPA 145 Spanish for Medical Personnel I
A beginning course in Spanish for people working or planning to work in the medical or allied medical field. The course emphasizes the gradual development of listening, speaking, reading, and writing with a focus on communicative competence and cultural awareness. Course content includes material related to different situations medical personnel encounter in their work. A valuable course for those planning to work in New York City or Long Island. NOTE: Students who have completed SPA 140, SPA 141 , or SPA 147 may not receive credit for SPA 145.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SPA 146 Spanish for Medical Personnel II
Continuation of SPA 145 with a focus on material and situations encountered in medical and allied medical fields. SPA 145 is a preferred prerequisite but not required. For students who haven't taken SPA 145, review of basic medical vocabulary available in course materials is strongly recommended. Note: Students who have completed SPA 142 cannot receive credit for SPA 146. This course is equivalent to SPA 142. Prerequisite: 3 or more years of high school Spanish or SPA 140, SPA 141, SPA 145, or SPA 147.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

SPA 147 Spanish for Business I
This is a beginning language course which covers basic linguistic structures of Spanish. The course differs from the traditional academic course only in its emphasis on developing vocabulary useful for careers in business, economics, or finance. Both oral and written communication skills will be developed. The course contains realistic dialogues focusing on business themes. Practical application of new structures is provided by vocabulary enrichment, role-playing situations, and other communicative activities. In addition, appropriate supplementary readings and practice in writing business letters, memos, and reports will be provided. Note: Students who have completed SPA 140, SPA 141, or SPA 145 may not receive credit for SPA 147. This course is equivalent to SPA 140, 141 and 145.
Course Offered: Fall, Winter, Summer
Credits: Credits:3 (3,0)

SPA 148 Spanish for Business II
Continuation of SPA 147. Prerequisite(s): 3 or more years of high school Spanish or SPA 140 or 141 or 147.
Course Offered: Summer
Credits: Credits:3 (3,0)

SPA 243 Spanish III (Intermediate)
A continuation of Spanish 142 for students who have had 2 or 3 years of high school Spanish. This course emphasizes the gradual development of the four language skills: listening, speaking, reading, and writing with stress on communicative competence and cultural awareness. A literary and cultural reader will be introduced. NOTE: Language courses must be taken in sequential and prerequisite order. Students completing SPA 243 cannot go back to complete a lower level SPA course. Prerequisite(s): SPA 142 or SPA 146
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SPA 244 Spanish IV (Intermediate)
For those students that have taken SPA 243 of four or more years of high school Spanish. This course emphasizes structural review, intensified practice in oral expression with increased emphasis on reading and writing skills. Continued attention will be given to contemporary Spanish culture. Selections from Spanish and Latin American authors will be read. Prerequisite(s): SPA 243
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SPA 250 Spanish for Native Speakers
This course is designed to strengthen the linguistic ability of students of Hispanic background, born or educated in the United States, who speak Spanish at home and lack a formal knowledge of the language. All four skills - comprehension, speaking, reading and writing are highlighted but emphasis is given to reading, writing and vocabulary. Cultural, social and literary insights of the Hispanic world. NOTE: Language courses must be taken in sequential and prerequisite order. Students completing SPA 250 cannot go back to complete a lower level SPA course. Prerequisite(s): Native or near native command of Spanish.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

SPA 251 Spanish Composition and Conversation
This course is an upper intermediate level course for students who are already proficient speakers of Spanish and have formal knowledge to the language. The course emphasizes the mastery of writing, reading, and oral communication skills, with particular attention given to the issues of Anglicism and interference of English, code switching, vocabulary building, orthography, and reading comprehension. Students will write compositions, make oral presentations and read materials of a cultural/literary nature, emphasizing the relationship between the culture of the United States and Hispanic culture. Prerequisite(s): SPA 244
Credits: Credits:3 (3,0)

SPA 301 Spanish V (Advanced)
An advanced conversation/composition course with intensive practice in oral and written Spanish. Selected representative works of Spanish authors will be read. Because the course deals mainly with Spanish fiction, emphasis will be given to familiarizing the student with this narrative in order to explore the connection between language and style as well as the literary trends and the social and cultural contexts of the periods for comparison and contrast. Prerequisite(s): 4 or more years of high school Spanish or SPA 244.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

SPA 302 Spanish VI (Advanced)
An advance conversation composition course with intensive practice in oral and written Spanish. Selected representative works of Spanish American fiction will be read. Because the course deals mainly with Spanish American fiction, emphasis will be given to familiarizing the student with this narrative in order to explore the connection between language and style as well as the literary trends and the social and cultural context of the periods for comparison and contrast. Prerequisite(s): 4 or more years of high school Spanish or SPA 301.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

SPA 303 Spanish and Latin American Cinema
In this course, representative Spanish and Latin American movies that cover periods from Romanticism to contemporary times will be analyzed, viewed and discussed. Films will be chosen to discuss social, philosophical, political and identity problems as well as its interpretation according to the artistic vision and directors' achievements and goals. Theory and history of film genres of Spain and Latin America cinema will be studied. Note: This course will be taught in Spanish only. Students taking this course cannot receive credit for MLG 302. Prerequisite(s): Permission from this department chair or SPA 302.
Course Offered: Summer
Credits: Credits:3 (3,0)

SPA 305 Hispanic and Latin American Culture and Civilization
Civilization course: Provides a general perspective on the formation of the Latin American Culture through the centuries, with special emphasis on Spanish America. In parallel form, historical and cultural evolution of the New World and the Iberian Peninsula will be studied from their beginnings up to the present. Among other aspects, the course will give special attention to the rich multicultural heritage which has been maintained in Latin America through the centuries, as well as its achievements in Art and Literature. Note: This course will be taught in Spanish only. Students taking this course cannot receive credit for MLG 305. Prerequisite(s): Permission from this department chair or SPA 302.
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

SPA 310 Latin American Women Writers
This course focuses on the works of major Latin-American women writers from the 17th to the 20th century. We will analyze poems, short stories and novels and how women have been portrayed in literature. The theoretical approach to this class will be based on contemporary feminist critics. We will study the works of the first 17th century Mexican feminist writer, The Nun, Sor Juana Ines De La Cruz, as well as the works of Elena Poniatowska, Julia Alvarez and Laura Ezquivel among others. Note: This course will be taught in Spanish only. Students taking this course cannot receive credit for MLG 310. Prerequisite(s): Permission from this department chair or SPA 302.
Course Offered: Fall
Credits: Credits:3 (3,0)

SPA 312 Contemporary Latin American Short Stories
An introduction to different literary movements reflected in Latin American Short Stories in translation during the 20th Century. The emphasis will be the lyrical basis of the realistic, surrealistic and supernatural elements in the stories of Latin American Writers. Modern women writers' esthetics and poetic sensitivity as well as humor and sarcasm will be included in both the observation of individual psychology and tales of the absurd. Summarizing, and using Anderson Imbert's three basic definitions, the focus of this course will be a) reality (realism); b) the supernatural (literature of the fantastic); c) the strange (magic realism). Note: Course will be taught in Spanish only. Students taking this course cannot receive credit for MLG 312. Prerequisite(s): Permission from this department chair or SPA 302.
Course Offered: Summer
Credits: Credits:3 (3,0)

SPA 315 Art, Culture and Civilization of Spain
Study of Spain, a multicultural and multilingual nation, not as a homogenous entity, but rather as a heterogeneous tapestry of various cultures and languages. The corpus of cultural texts studied will be derived from the realms of literature, film, architecture, music and the visual arts. They will be analyzed within their socio-historical context, as well as their aesthetic value. An integral component of the course will be the required trip to Spain (during spring break) to visit historical sites, works of art and architecture studied in the course. Note: This course will be taught in Spanish only. Students taking this course cannot receive credit for MLG 315. Prerequisite(s): Permission from this department chair or SPA 302.
Course Offered: Fall
Credits: Credits:3 (3,0)

SPA 320 Latino Writers in the United States
The development of Latino literature and culture in the United States, with emphasis on the 20th century. Major writings of Mexican, Cuban, Dominican Republican, Puerto Rican and other Latinos will be analyzed in relation to each group's particular experience and its relation to main stream society. Particular attention given to how gender, race, ethnicity, and class interaction affects the formation of the diverse cultural experience of the U.S Latino. Note: This course will be taught only in Spanish. Students taking this cannot receive credit for MLG 320. Prerequisite(s): Permission from this department chair or SPA 302.
Credits: Credits:3 (3,0)

SPEECH (SPE)

SPE 130 Public Speaking
This course prepares students in the following areas of effective expository and persuasive public speaking: audience analysis; topic selection; appropriate use and documentation of supporting material; organization and outlining techniques; aspects of delivery which include appropriate eye contact, posture, use of notes, elements of voice such as rate and volume, and the use of presentational visual aids. Group discussion and problem solving exercises will also be provided, and students will engage in peer feedback throughout the course.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SPE 131 Voice and Diction
This course presents the processes involved in the production of voice and diction. It introduces the fundamentals of place and manner of production for the vowels and consonants of Eastern Standard Dialect. There is an emphasis on New York Regional Dialect and the influence of foreign accents and dialects as needed. This is a hands-on course in which each student receives an initial speech profile and then focuses on their speech pattern throughout the semester both individually and in groups. All in-class exercises and assignments are designed to achieve the goal of a clear, effective, and professional speech pattern.
Credits: Credits:3 (3,0)

SPE 202 Interpersonal Communications
An Introduction to effective interpersonal communication skills covering areas such as effective and active listening, feedback techniques, the effects of self-concept and perception in daily communications, and non-verbal and cross-cultural communication. These skills will be developed through class lectures, group exercises, and individual activities and assignments. Prerequisite(s): EGL 101
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SPE 230 Effective Executive Speaking
A course designed to develop and refine the student's overall profile as an effective communicator in private and public settings. Articulation, listening skills, problem solving abilities, organizational skills and feedback techniques are stressed in interpersonal, group, and public speaking experiences.
Credits: Credits:3 (3,0)

SPE 231 Introduction to Argument and Debate
This course introduces students to foundational principles of argumentation and debate. Special attention is paid to theories of argumentation, how to diagram arguments, and how to evaluate evidence. Students' comprehension will be evaluated through timed oral debates and written argument. The goal of this course is to enhance students' ability to research, construct, and present effective written and oral arguments concerning issues of social importance. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

SPE 330 Professional and Technical Speech
A course designed to prepare students to develop and deliver oral presentations in a professional, business, scientific, or technical context, stressing methods of presenting information specific to students' disciplines. Students use audio-visual materials or technology to enhance their presentations. Prerequisite(s): EGL 102
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SPE 331 Advanced Oral Communications
This course is designed to develop effective and professional communication in the areas of communication theory, advanced presentation skills, and voice and diction. A major component of the course provides students with a personalized voice and diction diagnostic profile which informs each student of specific speech characteristics they present that deviate from Standard Eastern Dialect. Particular attention is given to New York Regional Dialect and foreign accent reduction. The course also introduces various theoretical systems of communication. There is a strong focus on the development and effective application of presentational skills in both public and group/team environments with an emphasis on professional settings. All aspects of the course contain written components which include student readings and reports as well as comprehensive speech outlines. Prerequisite(s): EGL 102
Course Offered: Fall, Summer
Credits: Credits:3 (3,0)

SECURITY SYSTEMS TECHNOLOGY (SST)

SST 115 Digital Systems
This course introduces students to the foundational concepts of computer and digital systems as they relate to modern cybersecurity and related environments. Students learn how hardware and software interact, how data is represented and processed, and how operating systems and file systems organize and manage information. Topics include analog and digital signals, number systems, digital logic, logic circuits, computer architecture, data storage, networks, and cloud systems.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SST 217 Computer Forensics II
Computer Forensics II is a continuation of CRJ 115 or SST 115. This course covers topics such as disk geometry and organization. Master boot sector record and volume record creation and organization, file signatures for data type identification, cyclic redundancy checksum for data integrity validation, and RSA's MD5 hash values for file authentication. Other subjects introduced include the UNIX "grep" search utility, search string techniques and file signature matching, and recovery of files that are intentionally deleted, hidden, or renamed. The course examines advanced computer-based evidentiary and "discovery" data methodologies, and includes a study of evidence identification, documentation, and chain of custody procedures. Prerequisite(s): CRJ 115 or SST 115
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SST 218 Computer Forensics III
This course examines federal, state, and local computer fraud statutes to provide the student with a legal foundation to approach computer investigations. The course includes lecture elements that provide the

student with the skills necessary to conduct successful computer-related investigations, and includes an examination of the processes involved in preparing an affidavit for a search warrant. Prerequisite(s): CRJ 217 or SST 217
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SST 230 Biometrics and Identity Theft
This course will introduce the history of biometrics, physiological/ anatomical biometrics (fingerprint, iris, face hand geometry, DNA, ear, vascular, etc), behavioral biometrics (speech/voice, signature, gait, keyboard typing, human biosignal, etc), biometric sensor technology and anti-spoofing, and soft biometrics. Students will learn how each biometric works, and how and why different biometrics should be chosen for different applications, such as online banking, surveillance and transportation security. It also covers the security and privacy issue of biometrics. The course will provide students with an understanding of the nature and scope of Identity Theft and Computer-Related Fraud. Prerequisite(s): CRJ 115 or SST 115
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SST 310 Computer Security I
This course focuses on security threats to an organization's data network such as hackers, intruders, industrial espionage and sabotage, fraud and theft. The components of computer security architecture are studied as well as the principles of security networking protocols, encryption, fault tolerance techniques, and file system protection. Additional topics covered include the protection of computer hardware and software. Prerequisite(s): BCS 109 or BCS 120 or (CRJ 115 or SST 115) or EET 110
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SST 311 Computer Security II
This course is a continuation of CRJ 310, and includes an analysis of the security features of computer operating systems. The course will review the OSI model and describe how systems communicate with one another. Also included in the course is a detailed study of authentication technologies and how they are used to secure an organization's assets and electronic transactions. Prerequisite(s): CRJ 310 or SST 310
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0,1)

SST 312 Computer Security III
The course examines computer software threats which include the birth, life and termination of computer viruses, their modes of operation, detection techniques, virus signatures and virus removal methods as well as other "virus like" threats which are delivered by e-mail and internet/intranet packets. Prerequisite(s): CRJ 311 or SST 311
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SST 314 Cybersecurity Law and Policy
This course introduces students to the regulation and management aspects of cybersecurity. It will cover concepts and definitions regarding governance and policy at an organizational and national level within the cybersecurity landscape. In particular, this course will go through numerous laws, standards and policies created by organizations such as NIST, GDPR, COBIT, ISO and ISA that govern the cybersecurity industry. Prerequisite(s): CRJ 115 or SST 115
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

SST 323 Network Defense
This course will discuss the security issues in computer networks and different security mechanisms to protect the secure internal networks and systems. It will involve a study of firewall technologies, including packet filtering, proxying, network address translation, and virtual private networks. An analysis of firewall architectures, such as screening routers, screened hosts, hosts, screened subnets, perimeter networks, and internal firewalls, will be included. It will also discuss the architecture, monitoring strategies, and analysis engines of an intrusion detection system. An analysis of information transformation processes for intrusion detection, such as misuse and anomaly detection, will be covered. Additional topics will include a study of technical issues in intrusion detection such as scalability, interoperability, sensor control, reliability, integration, and user interfaces. Prerequisite(s): CRJ 115 or SST 115
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0,1)

SST 410W Senior Paper (Writing Intensive)
Independent study of a Security Systems or related area of interest to both the student and a faculty member who shall act as project Advisor. The project selected will utilize competencies acquired in previous Security Systems and related courses. This is a writing intensive course. Prerequisite(s): EGL 102 with a C or better.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

SST 420 Physical Security I
A study of the theory and practice of managing the movement of people in organizational settings. This lecture course examines the operating principles and applications of access control readers, card encoding technologies, locking assemblies, and system functions such as fail-safe, fail-secure, access levels, time zones, limited and unlimited access privileges, and the like. Also, the course focuses on the role of alarm systems in an organization's overall protection plan, from the control of violence in the workplace to preventing theft of company property. Sensor technologies as well as controls and signaling systems are analyzed and evaluated with applications in the following areas: perimeter, interior, occupant, and object protection. Prerequisite(s): CRJ 323 or SST 323
Course Offered: Fall, Spring, Summer
Credits: Credits:4 (4,0,1)

SST 421 Physical Security II
A continuation of CRJ 420. Advanced topics include a study of camera and lens types, monitors, video signaling systems, scanners, pan and tilt positioning devices, video motion detectors, camera housings and enclosures, switchers, multiplexers, time-lapse VCRs, digital video recorders, and their interactive role in the design of CCTV systems. Analysis of illumination technologies, including fluorescent, high and low pressure sodium, metal halide, ultraviolet and infrared light sources. Other topics include the application philosophy as well as the hardware and software components of video surveillance computers, and the analysis of video field and frame compositions with reference to identification issues in criminal cases. An inquiry into the legal and ethical dimensions of surveillance, including Fourth Amendment guidelines, Plain View Doctrine cases, the Expectation of Privacy court cases and directives, and the Exclusionary Rule. Prerequisite(s): CRJ 420 or SST 420
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0,1)

SST 440 Bitcoin and Cryptocurrency
This course introduces the technologies associated with bitcoin and cryptocurrency, including their cryptographic building blocks and security, bitcoin’s consensus mechanism, individual components of bitcoin protocol, storage and usage of bitcoin, bitcoin mining, anonymity, community, politics, and regulation, alternative mining puzzles, bitcoin as a platform, altcoins and cryptocurrency ecosystem, and the future of bitcoin. Prerequisite(s): CRJ 311 or CPS 401 or SST 311
Credits: Credits:3 (3,0)

SST 491 Security Systems Internship
The internship course is designed to provide the students with the opportunity to earn technical elective credits by acquiring hands-on industry experience. A student will work in a computer security related role at an organization in consultation with a Faculty advisor. The student will maintain a log of their work at the organization signed by the supervisor. In addition, weekly journal entries will be enforced to summarize the work experience. Finally, the student will need to write two reflective essays about the internship experience. Prerequisite(s): Approval of department chair
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (9,0)

SCIENCE, TECHNOLOGY AND SOCIETY (STS)

STS 101 Gateway to Science, Technology, & Society
This course will provide students with a rich introduction to the field of Science, Technology, & Society (STS), paying particular attention to key concepts and methods such as the interplay between science, politics, economics, religion, and culture. STS studies the position of science in society as well as social and cultural aspects of the production of scientific

knowledge. The course will also devote time to career development and explore fields where STS can provide entry. Prerequisite(s): EGL 101
Course Offered: Fall
Credits: Credits:3 (3,0)

STS 200 Information Literacy in the Digital Era
The purpose of this course is to provide an introduction to research methods in the age of new media, focusing on the effective location and use of digital resources, including electronic databases, Web-based materials, e-books, etc. Course lectures will focus on the historical evolution of information-sharing tools and current controversies in authorship and research in the digital age, including the debate on plagiarism, issues associated with intellectual property, and questions about the authenticity of data. Prerequisite(s): EGL 101
Course Offered: Fall
Credits: Credits:3 (3,0)

STS 201 Thinking Critically About Technology
Is more/better/faster technology always a good thing? This course will explore how society views technology and how technological advancements impact our everyday lives. The learner will then apply this knowledge to assess and engage arguments for and against major technological advancements including the emergence of cyberspace, "always-on" social media, artificial intelligence, transhumanism, and other radical evolutions in technology. Prerequisite(s): EGL 101
Course Offered: Spring
Credits: Credits:3 (3,0)

STS 300 Special Topics: Science, Technology, & Society
This course offers instruction in special content areas that explore the intersection of scientific and technological advances, politics, culture, and society. Interdisciplinary in nature, Special Topics in Science, Technology, & Society will investigate contemporary issues such as ecology and environmental sustainability, the spread of information and communication technologies, privacy and surveillance, new technologies of war, and bioethics, among other fields of inquiry. This course will require extensive reading and research, focused on the selected topic. Students should consult the department before registering for any Special Topics course. Prerequisite(s): STS 330
Course Offered: Summer
Credits: Credits:3 (3,0)

STS 303 Special Topics: Science, Technology, & Society
This course awards credit for hands-on research experience with a faculty mentor to Science, Technology, & Society students. The course is specifically intended for those who participate in faculty-mentored research prior to their senior year capstone experience. Students will receive credit for research experiences on the Farmingdale Campus, or off-campus in major universities, research laboratories, businesses, industry, government, horticultural gardens, and other settings that fit their academic interests and career goals. Prerequisite(s): Junior Status in the STS program.
Course Offered: Summer
Credits: Credits:3 (1,0,6)

STS 305 Research Ethics in a Diverse and Inclusive World
This course explores the ethical dimensions of research within a global and diverse context. Students will critically engage with ethical theories, principles, and dilemmas related to conducting research in various fields. Emphasis will be placed on understanding how diversity and inclusion intersect with ethical research practices, particularly in the humanities and social sciences. Students will be able to apply learned ethical frameworks to real-world research Scenarios, particularly those involving vulnerable populations and cross-cultural contexts. The course fulfills the Social Science general education requirement and the diversity, equity, inclusion, and social justice (DEISJ) requirement. Prerequisite(s): EGL 102 with a grade of C or higher
Credits: Credits:3 (3,0)

STS 310 Surveillance Technology in Cinema
This course examines the issues raised by cinematic representations of the use of surveillance technology and their implications to our global society. Through critical analysis of assigned screenings and readings, you will explore the ways in which film has represented the global surveillance culture that in recent years has increasingly become part of the public consciousness. Prerequisite(s): Junior Status in the STS program.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

STS 320 Technology and Humanity in Cinema
This course examines the issues surrounding cinema's portrayals of the impact that scientific and technological progress have upon humanity. Through critical analysis of assigned screenings and readings, students will explore the ways in which film articulates the shifting conception of what it means to be human in a world increasingly defined by our relationship with technology. Prerequisite(s): Junior Status in STS program.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

STS 322 The Role of Patient Education in Healthcare
In this course, students will develop an understanding of the role of education in the field of health services. They will be given the toots to evaluate different learning styles and adapt teaching strategies to personalize patient care and communication. Students will develop a patient-centered care mindset and learn to utilize a multidisciplinary approach to patient care through the application of communication principles for the healthcare practitioner. This mindset is essential for today's healthcare worker, and emphasizes the physical, personal, and social aspects of patients' conditions. Students will learn about common health issues facing the population (diabetes, hypertension, obesity, etc.), as well as the causes, common medications and treatment, and medical terminology associated with the disease. Students will identify effective strategies to educate patients about their illness. Students will learn how patient education regarding disease management is critical for patient outcomes. These topics will be introduced to provide a general understanding to any student interested in choosing a profession in the medical field. This course will include the practical application of case studies to allow students to apply their skill set to real life situations. Students will be required to complete a project wherein they are asked to provide education to a patient in the field of their choice. Prerequisite(s): STS 330 Credit(s): 3
Credits: Credits:3 (3,0)

STS 330 Scientific Thinking
In this course students will be introduced to a method of problem solving characterized by critical thinking across multiple disciplines. Students will revisit the scientific method to learn how to employ its tenets to approach unstructured, real-world problems faced on the individual, local, and global levels. Students will be introduced to the concept of integrative thinking and how to draw on the multi-disciplinary nature of STS to substantively interact with complex issues. In the process, students will gain familiarity with the methods in which data science may be employed to approach problem solving. As the semester progresses, students will apply the skill set this course cultivates to analyze and evaluate problems as well as synthesize solutions. Prerequisite(s): Junior Status and one General Education Science course with a lab.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

STS 341 Sustainable Food Systems: Food Literacy
This course is a survey of food systems through historic, geo-political, and socio-economic lenses. A food system is the amalgamation of influencers from five categories: resources, production, processing and distribution, preparation and consumption, and resource recovery/disposal. The course addresses those influencers that are economically viable, socially just, and environmentally sustainable; a food system's so-called triple-bottom-line. As food literacy is a trending global imperative, the course will address issues surrounding the shaping of food systems on the local, regional, national, and international level. We will discuss what works and what doesn't within a given system, which stakeholders benefit and which are neglected, and how each movement; organic, local food, fair trade and others, impact these systems. Prerequisite(s): Junior Status
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 342 Food and Nutrition Policy in the U.S.
This course explores the intersection of food systems, food security, and the American diet. Topics of focus include roles of government agencies, NGOs, business and private sector stakeholders, media outlets, and sustainable food system advocates as they navigate federal food and nutrition programs, the US Farm Bill, and dietary guidelines. Emphasis will be placed on intended and unintended consequences of food and nutrition policies and how they may benefit certain groups at the expense of others. Specific attention will be paid to how these policies impact the development, adoption, and practice of sustainable agriculture in local food systems. The role of interest groups whose influence helps shape these

policies will also be examined. STS 330 can be taken either as a prerequisite or corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 350 Data and Society
Vast amounts of data exist online which chronicle aspects of our modern society in great detail. Careful analysis of these data sets can uncover useful information which may allow individuals, organizations, and governments to make better decisions as they prepare for the future. In addition to the benefits that come with more information, there is a growing risk of these data being misused in critical situations, either deliberately or as a result of poor training. This course introduces students to the skills necessary to extract meaningful and useful information from this data, the caveats associated with data mishandling and misuse, and the role that big data and online algorithms are playing in shaping society. Tenets of the scientific method will be applied to probe questions of a social, political, and economic nature through the analysis of publicly available online datasets. Students will learn hypothesis testing to be able to make statistically sound conclusions from their data analysis projects. Data acquisition, basic statistical techniques, data visualization, and methods for logical interpretation of results will be taught. The course will primarily use Microsoft Excel for data handling and analysis. STS 330 can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330, MTH 110, and BCS 160
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

STS 355 Insights for Impact: Human-Centered Approaches to Data, Design, and Decision Making
Design is about more than visuals, it mediates how data becomes insight and how decisions take form. The course emphasizes design not only as a creative practice but as the structuring of insight processes themselves, shaping how evidence is gathered, how choices are framed, and how outcomes are measured. Students will engage in structured activities to develop a toolkit (stakeholder mapping, logic modeling, interview coding, insight synthesis) and apply it in a portfolio project that transforms data and research into actionable recommendations for stakeholder contexts, drawing on case studies in health access, food systems, and public interest technology. Prerequisite(s): STS 330 Credit(s): 3
Credits: Credits:3 (3,0)

STS 364 The Future of AI: Choices and Challenges
Artificial intelligence (AI) bears enormous potential to enhance life within and beyond the immediate remit of human control. Yet it also compounds existing socio-political problems while ushering in others: among other issues, AI has been shown to unwittingly reinforce entrenched patterns of discrimination; contribute to environmental degradation; and abet illegal and unethical activity of various kinds. Given the rapid pace of AI development in recent years, and the prevalence of public and specialist interest in AI, it is more urgent than ever to study AI from a future-oriented perspective. "The Future of AI: Choices and Challenges" takes up this task. The course features three units. In the first, we investigate historical precursors to today's applications. In the second, we ask if the metaphoric reasoning by which AI is alleged to simulate human capacities is valid or not, and (more importantly) what our answers to this question mean in applied contexts. The third unit builds on the historical and theoretical frameworks introduced in the first two to examine timely case studies. By the end of the semester, students will be able to express original, well-informed views on AI as a future-making force. Prerequisite(s): STS 330
Credits: Credits:3 (3,0)

STS 380 Ethics, Human Society, & Artificial Intelligence
The widespread use of systems powered by artificial intelligence (e.g. facial recognition, self-driving cars, large language models, etc.) has exploded over the last decade and will continue to proliferate over the next decade to nearly all sectors of society. It can be argued that the usefulness of such systems and the confidence we place in their output is directly linked to their ability to make decisions and reach conclusions that align to our values and ethics. This course will focus on ethical pitfalls present and anticipated in the burgeoning ecosystem of artificial intelligence, including: algorithmic bias, epistemological opacity, perils of reinforcement learning, violations of privacy, exploitation of surveillance products, automation and its impact on labor, environmental sustainability, and the accountability of autonomous systems. Students will analyze potential solutions to ethical quandaries of AI and evaluate proposed methods for reliable governance of AI systems. In addition to viewing AI and machine/deep learning systems as objects for our use, the course will explore the notion of AI as subjects, with consideration made to future moral status and the rights and responsibilities accompanying such an attribution. Prerequisite(s): AIM 350
Credits: Credits:3 (3,0)

STS 381 Special Topics in Technical & Scientific Communication
This course offers instruction in special topics in Science, Technology, & Society pertaining to Technical & Scientific Communication. Students will explore, analyze, and evaluate special interdisciplinary topics in Technical & Scientific Communication further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 382 Special Topics in Data Science
This course offers instruction in special topics in Science, Technology, & Society pertaining to Data Science. Students will explore, analyze, and evaluate special interdisciplinary topics in Data Science further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 383 Special Topics in Geographical Information Science
This course offers instruction in special topics in Science, Technology, & Society pertaining to Geographical Information Science. Students will explore, analyze, and evaluate special interdisciplinary topics in Geographical Information Science further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 384 Special Topics in Organizational Leadership
This course offers instruction in special topics in Science, Technology, & Society pertaining to Organizational Leadership. Students will explore, analyze, and evaluate special interdisciplinary topics in Organizational Leadership further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 390 Special Topics in Impact of Technological Change
This course offers instruction in special topics in Science, Technology, & Society pertaining to the Impact of Technological Change. Students will explore, analyze, and evaluate special interdisciplinary topics related to the Impact of Technological Change further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 391 Special Topics in Impact of Technological Change
This course offers instruction in special topics in Science, Technology, & Society pertaining to the Impact of Technological Change. Students will explore, analyze, and evaluate special interdisciplinary topics related to the Impact of Technological Change further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 392 Special Topics in Energy, Environment, & Sustainability
This course offers instruction in special topics in Science, Technology, & Society pertaining to Energy, Environment, & Sustainability. Students will explore, analyze, and evaluate special interdisciplinary topics in Energy, Environment, & Sustainability further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 393 Special Topics in Energy, Environment, & Sustainability
This course offers instruction in special topics in Science, Technology, & Society pertaining to Energy, Environment, & Sustainability. Students will

explore, analyze, and evaluate special interdisciplinary topics in Energy, Environment, & Sustainability further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 394 Special Topics in Global Connections
This course offers instruction in special topics in Science, Technology, & Society pertaining to Global Connections. Students will explore, analyze, and evaluate special interdisciplinary topics in Global Connections further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 395 Special Topics in Global Connections
This course offers instruction in special topics in Science, Technology, & Society pertaining to Global Connections. Students will explore, analyze, and evaluate special interdisciplinary topics in Global Connections further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 396 Special Topics in Gender, Race, & Culture
This course offers instruction in special topics in Science, Technology, & Society pertaining to Gender, Race, & Culture. Students will explore, analyze, and evaluate special interdisciplinary topics in Gender, Race, & Culture further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 397 Special Topics in Gender, Race, & Culture
This course offers instruction in special topics in Science, Technology, & Society pertaining to Gender, Race, & Culture. Students will explore, analyze, and evaluate special interdisciplinary topics in Gender, Race, & Culture further developing their Science, Technology, & Society critical/scientific thinking skill set. The prerequisite can be taken as a prerequisite or a corequisite. Prerequisite(s): STS 330
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

STS 400W Senior Seminar in Science, Technology, & Society (Writing Intensive)
The Senior Seminar in Science, Technology, & Society is a capstone course for those students intending to graduate from the Science, Technology, & Society (STS) program. Students will participate in a reading and writing-intensive seminar organized around a common theme in the sciences and technologies, exploring how social, political, and cultural values affect the production and dissemination of knowledge and the development and use of new technologies. Students in the seminar will be required to complete a substantial research project integrating what they have learned during their course of study and their specific areas of interest. Students should consult the department before registering for any seminar course. This is a writing-intensive course. Prerequisite(s): Senior status in STS program and EGL 101 with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

STS 401W Internship in Science, Technology, & Society (Writing Intensive)
This course is designed for Science, Technology, & Society (STS) majors who wish to complete a semester-long (or equivalent) internship as part of their course of study. Students may choose an internship at a corporation or a civic, educational, governmental, or not-for- profit organization after consultation with and permission of the department chair. Any internship should support learning outcomes and/or career development in the sciences, technology, and/or society. Enrollment in this course is restricted to students with senior status in the STS Program. Students enrolled in an internship will meet periodically with their advisor and will be required to submit internship notes and both a draft and final report of the internship experience at the end of the semester. This is a writing-intensive course. Prerequisite(s): Senior status in STS program and approval of Department Chair and EGL 101 with a grade of C or higher.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (1,0,6)

STS 402 Internship in Science, Technology, & Society
This course is designed for Science, Technology, & Society (STS) majors who wish to complete a semester-long (or equivalent) internship as part of their course of study. Students may choose an internship at a corporation or a civic, educational, governmental, or not-for- profit organization after consultation with and permission of the department chair. Any internship should support learning outcomes and/or career development in the sciences, technology, and/or society. Enrollment in this course is restricted to students with senior status in the STS Program. Students enrolled in an internship will meet periodically with their advisor and will be required to submit internship notes and both a draft and final report of the internship experience at the end of the semester. Prerequisite: Senior status in STS program and approval of Department Chair.
Course Offered: Summer
Credits: Credits:6 (1,0,15)

STS 403 Internship in Science, Technology, & Society
This course is designed for Science, Technology, & Society (STS) majors who wish to complete a semester-long (or equivalent) internship as part of their course of study. Students may choose an internship at a corporation or a civic, educational, governmental, or not-for- profit organization after consultation with and permission of the department chair. Any internship should support learning outcomes and/or career development in the sciences, technology, and/or society. Enrollment in this course is restricted to students with senior status in the STS Program. Students enrolled in an internship will meet periodically with their advisor and will be required to submit internship notes and both a draft and final report of the internship experience at the end of the semester. Prerequisite(s): Senior status in STS program and approval of Department Chair.
Course Offered: Summer
Credits: Credits:9 (1,0,24)

STS 404 Internship in Science, Technology, & Society
This course is designed for Science, Technology, & Society (STS) majors who wish to complete a semester-long (or equivalent) internship as part of their course of study. Students may choose an internship at a corporation or a civic, educational, governmental, or not-for- profit organization after consultation with and permission of the department chair. Any internship should support learning outcomes and/or career development in the sciences, technology, and/or society. Enrollment in this course is restricted to students with senior status in the STS Program. Students enrolled in an internship will meet periodically with their advisor and will be required to submit internship notes and both a draft and final report of the internship experience at the end of the semester. Prerequisite(s): Senior status in STS program and approval of Department Chair.
Course Offered: Summer
Credits: Credits:12 (1,0,33)

STS 420 Emerging Trends in Artificial Intelligence
Artificial intelligence is changing the way the world works. Industries as diverse as business, finance, marketing, manufacturing, medicine, engineering, law, the physical sciences, the arts, and the entertainment industry have begun to harness the tools and techniques of artificial intelligence, machine learning, deep learning, and reinforcement learning to transform the way we see, interact, and understand our world. This course offers a conceptual understanding of emerging AI technologies and how such techniques are applied in these and other fields of study. AI is a rapidly changing field, and this course will rapidly adapt to discuss emerging trends and applications as they develop. Prerequisite(s): AIM 350
Credits: Credits:3 (3,0)

THEATRE (THE)

THE 233 Introduction to Theatre
A survey of the elements of theatrical art, including script, acting, scenery, lighting, costumes, and the roles of the various members of professional production: producer, actor, and audience. Representative plays, playwrights, and styles from ancient Athens to off-Broadway are examined. Prerequisite(s): EGL 102
Course Offered: Fall
Credits: Credits:3 (3,0)

VISUAL COMMUNICATIONS (VIS)

VIS 101 Introduction to Drawing
Students will be introduced to basic observational freehand drawing techniques, including line, form, light and shade and composition. Students will study examples of work from various artists and have an opportunity to apply this knowledge in the studio and in outdoor settings.
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

VIS 102 The Interrelationship of Art and Music
In an effort to foster in students a broad appreciation of the arts, this course will expose students to the fundamentals of art and music and will explore historic trends and compositional techniques common to both genres. The course will be presented in seminar format and will include lecture, class discussion, listening to music, viewing examples of art, and analyzing representative examples of music and art.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

VIS 103 Introduction to Watercolor
Students will be introduced to basic watercolor techniques, including color, value, shape and composition. Students will study examples of work from various watercolor artists and have an opportunity to apply this knowledge in the studio and outdoor settings.
Course Offered: Fall, Spring, Summer
Credits: Credits:3 (3,0)

VIS 104 Introduction to Calligraphy
An introduction to the history and technique of the calligraphic arts. Students will gain insight into the origins and development of hand-lettered communication throughout history. Topics will range from illuminated manuscripts to contemporary calligraphic artists. Students will apply this knowledge to their own calligraphy projects.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

VIS 105 Introduction to Photography
This course is an introduction to the history, art and technique of photography. By utilizing their own cameras and commercial processing, students will acquire the knowledge and skills necessary to produce well-composed and properly exposed creative photographs. The estimated student cost for materials, including film, processing and other supplies is approximately $200 (not including camera).
Course Offered: Fall, Winter, Spring, Summer
Credits: Credits:3 (3,0)

VIS 106 Introduction to Pastels
Students will be introduced to a vast array of pastel techniques including linear strokes, side strokes, blending, feathering, cross hatching, scumbling, and pointillism. Drawing and compositional skills such as an understanding of value, color, and line will also be stressed. Students will study examples of work from various artists and apply this knowledge in the studio and in outdoor settings.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

VIS 107 Introduction to Collage
Collage as an art practice has shaped major movements in the histories of art, such as Cubism, Dada, and Surrealism and many artists like Pablo Picasso, Henri Matisse. and Hannah Höch have used it in their expressive artworks. Collage was also the technique used by artists in the 1960s and 1970s in their protest art. Contemporary artists use collage as a versatile medium in their creative practices to expand their experiences with materials, breaking the barriers of working in a specific medium and focusing on the process of making and multiple ways of knowing. In this course, students will learn the history of collage and explore various approaches for making Mixed Media Collage, Paper Collé, Photomontage, Décollage, Assemblage and Digital collage. Students will utilize using design elements and principles such as color, shape, form, texture, pattern, balance, rhythm, and composition in their artworks.
Credits: Credits:3 (3,0)

VIS 110 Drawing I
Drawing is the foundation for all other applications of design. To that end, this course explores the principles of freehand drawing, and emphasizes the use of line, light and shade, perspective, proportion and pictorial composition. Subject matter in class will include both still-life (natural and fabricated) and an introduction to drawing the figure. Students will experiment with a variety of black and white media as they learn about drawing and all its possibilities, both creative and analytical.
Course Offered: Fall, Spring
Credits: Credits:3 (1,4)

VIS 112 Two-Dimensional Design
This course is an in-depth examination of the elements and principles of design and how they influence the creation of two-dimensional compositions. Students will acquire vocabulary and concepts that will be used throughout their careers. Individual visual expression will be emphasized through design assignments that allow the exploration of a variety of media and tools. Contemporary and historically significant works of art and design will be utilized. This will help students recognize the successful application of the elements and principles of design for evaluating their own work and that of their peers.
Course Offered: Fall, Spring
Credits: Credits:3 (1,4)

VIS 114 Principles of Color
This course will explore the vast visual language of color including its characteristics, properties, and schemes, as well as its expressive and symbolic usage. An understanding of the rich vocabularies of both color and design will be enforced. Students will increase their skills in the identification and interpretation of design principles in contemporary and historically significant works of art. Students will experiment with color in many mediums as an avenue to recognizing the power of color.
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 115 Three-Dimensional Design
Three-dimensional is the foundation for many of the specialized areas of graphic design, including package design, product design, environmental graphics, animation and three-dimensional modeling. Thus, this course stresses the application and appreciation of the principles and elements that make successful three-dimensional designs. Study will include: mass, volume, line, surface, plane, space, time and motion. In the design and construction of three-dimensional objects, students will explore a variety of materials and construction methods. Constructions will be made typically of wood, paper, bristol board, foam core, corrugated board, plaster and other three-dimensional materials. The course will also stress the efficient and safe use of tools and materials.
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 116 Digital Media and Methods
The concepts and techniques of digital media are essential for the modern graphic designer. This course serves as an essential foundation for all subsequent courses in computer graphics. Students will gain an understanding of how this evolving technology applies to the visual communications industry and will be introduced to the hardware and software utilized within the field. The terminology that we use as designers when dealing with technology will also be stressed.
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 118 Creative Concepts Seminar
This course will be presented by instructors and guest lecturers in a seminar format that will integrate a series of topics and contemporary issues pertaining to creativity. The objective of this course is to further develop each artist's ability to conceptualize and creatively apply solutions to visual arts projects.
Course Offered: Fall, Spring
Credits: Credits:1 (1,0)

VIS 120 Drawing II
This course furthers the investigations of drawing as the foundation for all other applications of design. Students will expand their understanding of perspective and structural drawing, and continue the development of the perception, skill and knowledge necessary to draw the human figure. In addition to working in graphite and charcoal, students will also experiment with a variety of drawing surfaces and media, including ink wash and watercolor. Prerequisite(s): VIS 110
Course Offered: Fall, Spring
Credits: Credits:3 (1,4)

VIS 122 Typography I
Typography is the formal study of letterform. Each typeface has qualities that allow it to be identified, classified and appreciated for its own individual beauty. In this course, students will gain perspective into this important field by starting with a focus on early visual communication, symbols handwritten letterforms, calligraphy and the development of movable type. Students will then explore ways to categorize type into families and identify and define the similarities and subtle differences in classical typeface. Class discussions, projects, critiques and lectures will focus on typographic terminology and vocabulary, as well as the aesthetic discipline of using type effectively as a designer. An emphasis will be placed on typography as an essential element of graphic design. Prerequisite(s): VIS 112 and 116
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 140 Introduction to Graphic Design
An introduction to the fundamental concepts of design as applied to the communication of information. The primary objective of this course is to develop the students' perceptual and technical skills. Class discussions and hands-on projects will stress the effective use of typography, images, and page layout principles to achieve a balance between the design and readability of documents.
Credits: Credits:3 (3,0)

VIS 150 Computing and Internet Essentials
An introduction to computer operation on both the Macintosh and Windows computer platforms. This course is intended to give students an understanding of fundamental use of computers and cross-platform issues, especially as they pertain to the Internet. File management, scanning, fonts, communications, application software and web browsers will be some of the topics covered.
Credits: Credits:3 (2,2)

VIS 188 Advertising Practices and Applications
This course will combine basic advertising principles with practical media application. This course shall introduce students to the business of advertising in a contemporary global environment. The course will explore concepts of advertising, including elements of media selection and copywriting within the parameters of internal budgets, management and the application of actual advertising creation. In addition, students will create advertising, integrating the roles of the creative director and marketing manager. Note: Students completing this course may not receive credit for BUS 188.
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

VIS 200 Survey of Graphic Design
A survey of the history of graphic design from the Graphic Renaissance to the Digital Age. Special attention will be paid to how this history both reflects and influences our society and culture. Lectures, slides and texts will be used in the exploration of each of the following periods: Graphic Renaissance, The Industrial Revolution, Mid-Century Modern, Late-Modernism, Post-Modernism, and the Digital Age.
Credits: Credits:3 (3,0)

VIS 214 Figure Drawing I
Introduce design and illustration students to the basic concepts of drawing the human figure from life. Two thirds of the semester will be devoted to drawing the nude model in the studio, while one third of the course will be devoted to drawing the clothed figure in the studio. Prerequisite(s): VIS 120
Credits: Credits:3 (2,2)

VIS 215 Introduction to Animation
The course will provide an exploration of animation techniques and applications from early development through digital media. Students will study selected traditional and electronic animation techniques from storyboard through the final animated production. The course will concentrate on storytelling using different animation methods in a digital environment.
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 216 Painting I
This course will introduce students to the basic principles of painting. All students will work in the medium of oil paint. Because drawing is the basis of all visual means of expression, this course will incorporate an analytical approach to seeing and drawing from life and will quickly progress to working with paint. This course will be conducted through lectures, demonstrations, critiques and predominantly through the interaction between instructor and student. Each student will be asked to complete approximately seven paintings by the end of the semester.
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 217 Introduction to Printmaking
This mixed–media course introduces the student to the basic fundamentals and concepts of non-toxic printmaking: the development of an image on a printing plate, the transfer of the image to paper, edition printing, matting and presentation. Media will include photo and digital transfer, woodcut prints, silkscreen, intaglio, collagraphs and monoprints. Emphasis is placed on the student's exploration of this creative process to produce and develop exciting prints.
Credits: Credits:3 (2,2)

VIS 222 Graphic Design I
The graphic designer conceives, plans, and executes a design that communicates a direct message to a specific audience. It is through a formal understanding of the design process that students learn to create successful designs, Designers must also learn to professionally execute their concepts across a variety of platforms and utilize software to help them accomplish that goal. Page layout for both print and screen-based application will be practiced in this course, concentrating primarily on the combination of type and image to communicate ideas. In this course, students will adhere to the design process in the creation of commercially viable solutions to design problems. Prerequisite(s): VIS 122
Course Offered: Fall, Spring
Credits: Credits:3 (1,2)

VIS 225 Photography I
This course introduces photographic principles with the primary emphasis on the technical issues of photography in studio and natural lighting conditions. Students will learn the concepts and techniques for proper lighting, exposure, focus, depth-of-field, and creative composition. The methodology for the creation of compelling and original photographic images will be covered as it applies to graphic design projects. Image management software, archival storage solutions, and presentation techniques will be explored. Students must supply their own digital camera (see department web page for current specific equipment requirements). Prerequisite(s): VIS 112 and 116
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 226 Design Production I
Design Production deals with how to professionally execute Graphic Design concepts. As designers we use a vast array of tools and technology and this course introduces students to the primary software used to create those designs. Students will utilize texts and online resources for software training and the instructor will provide additional training in realistic situations and troubleshooting the use of the software relative to specific tasks. Software will include solutions for vector illustration, bitmap image manipulation, layout and print production as they pertain to design decisions. This is not software training (menu by menu, feature by feature) rather it is a focus on the software in terms of the tasks that the student is likely to encounter in a real world print environment. Prerequisite(s): VIS 116
Credits: Credits:3 (2,2)

VIS 232 Graphic Design II
As the design problems become more sophisticated, the demand for student self-study will increase as will the need for project and solution orientated training from the instructor. A further refinement of the student's personal aesthetic will be encouraged. This course will introduce higher level, theoretical ideas related to communication, design and cognitive theories. The primary software tools include print, screen-based and interaction design, with more emphasis placed on screen-based projects. Outside resources will be utilized for general software instruction. Prerequisite(s): VIS 222
Course Offered: Fall, Spring
Credits: Credits:3 (1,4)

VIS 234 Design Production II
Design Production II continues to deal with how to professionally execute Graphic Design concepts with more advanced ideas and technology. The primary software tools include advanced print, web, rich-media and interactive design, with more emphasis placed on web-oriented projects.

Outside resources will be used for general software instruction. Classroom focus will be on the use of the best practices with emphasis on the use of the software in the production of real world projects and problems.
Prerequisite(s): VIS 226
Credits: Credits:3 (2,2)

VIS 236 Typography II
This course will offer the students the opportunity to refine their skills in typographic design and application using digital technology. Class discussions, projects and critiques will concentrate on the crucial role of typography and the relationship of type as image in contemporary graphic design. Students will learn advanced techniques and refine typographic design skills while exploring the many ways in which typography can be utilized to express the message of design. Prerequisite(s): VIS 222
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 240 Publication Design I
A survey of the concepts and applications of graphic design, typography and page layout as they pertain to publication design. This course is intended for students enrolled in the Professional Communications curriculum. Emphasis will be placed on effective communication, aesthetics, and conformity to corporate identity guidelines. Prerequisite(s): BCS 102
Credits: Credits:3 (3,0)

VIS 242 Publication Design II
The continuing exploration of graphic design, typography and page layout as they pertain to publication design. This course is intended for students enrolled in the Professional Communications curriculum. Students will apply the concepts learned in prerequisite coursework to a variety of publication projects utilizing professional page layout software.
Prerequisite(s): VIS 116
Credits: Credits:3 (3,0)

VIS 252 Drawing and Painting Techniques
This course will offer an advanced study and exploration of painting and drawing techniques. Students will be expected to enter the course with a proficiency of drawing skills having completed Drawing I, Drawing II and Figure Drawing as prerequisites. Students will acquire a wide range of skills related to drawing and painting. Advanced techniques and media will enable students to attain a higher level of artistic self-expression.
Prerequisite(s): VIS 120
Credits: Credits:3 (2,2)

VIS 254 Package Design
This course applies the principles of graphic design, typography and three-dimensional design to the specialized area of package design. Students may design labels, boxes, containers and other types of consumer packaging materials, in addition to point-of-purchase displays. Factors influencing the designs will include manufacturing, printing, digital technology, consumer appeal and tampering and label regulations. Prerequisite(s): VIS 112, 122 and 210
Credits: Credits:3 (2,2)

VIS 256 Foundations of Illustrations
Foundations of Illustration is a course which teaches the multiple stages of the creative process of picture making. Study will explore research of conceptual ideas to effectively precede the execution of a successful illustration. The formal issues of color, light, structure, space and composition are emphasized. Developing an illustration will entail the conceptual thought process to the visual execution of the idea. Preliminary drawings, reference material and photographic sources are combined to assist the student in creating illustrated work. Prerequisite(s): Department approval or VIS 214.
Credits: Credits:3 (2,2)

VIS 260 Graphic Design for Non-Majors
Graphic Design for Non-Majors introduces the principles and processes of graphic design. Emphasis will be on conceptual development, organization of information and effective communication with the formal integration of type and imagery. Students will learn to think critically, make aesthetic judgments, and become familiar with a variety of tools and techniques used to produce work in the fields of design.
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 265 Web Design for Non-Majors
Web design encompasses many different skills and disciplines in the production and maintenance of websites. This course will introduce students to the planning, designing and constructing of layouts in web development and interactive design for the internet and screen devices. Course content includes discussions of layout, composition, planning, constructing and maintaining a website.
Credits: Credits:3 (2,2)

VIS 280 Introduction to Illustrator
Adobe Illustrator graphic design software is used by graphic designers, web designers, and artists to create vector drawings and imagery for use in different media and platforms. This course will introduce students to the creation of original vector images and artwork, and explore digital illustration techniques to create imagery for a variety of projects and products. These skills will enable the student to properly use the industry's premier vector drawing program. This course runs for five (5) weeks. Registration must be completed during normal registration period.
Credits: Credits:1 (0,3)

VIS 281 Introduction to Photoshop
Adobe Photoshop is the industry standard photo editing software used by photographers, graphic and web designers, videographers, and artists to enhance and manipulate photos and create original digital artwork. This course will introduce students to the use of this software to create original artwork, edit, restore and retouch existing photography, correct and modify color and explore different digital image techniques to create composites and simulating a variety of special effects. This course runs for five (5) weeks. Registration must be completed during normal registration period.
Credits: Credits:1 (0,3)

VIS 282 Photoshop for the Web
Adobe Photoshop is a powerful photo editing software package used by web designers to create original imagery and artwork for web sites and development. This course will further enhance students understanding of this software to create original artwork and prepare it for use on the Internet and screen devices. This course runs for five (5) weeks. Registration must be completed during normal registration period. Prerequisite(s): VIS 281
Credits: Credits:1 (0,3)

VIS 283 Introduction to Dreamweaver
Adobe Dreamweaver is the industry-leading web authoring and editing software providing both visual and code-level capabilities for web development and design. This course will introduce students to the use of the fundamentals of Dreamweaver to create and manage web pages and fully functional web sites with an emphasis on best practices and current web standards. This course runs for five (5) weeks. Registration must be completed during normal registration period.
Credits: Credits:1 (0,3)

VIS 284 Introduction to InDesign
Adobe InDesign is a design and layout program used to create publications for print, interactive pdf documents, digital magazines, and EPUBs. By combining text, imagery, and graphic elements created from a variety of sources InDesign allows you to create engaging layouts from single pages to multiple page documents and publications. In this introductory course, you will discover the flexibility and outstanding typography features of this program, work with color, imagery and graphics, and prepare professional-level publications for output for multiple platforms. This course runs for five (5) weeks. Registration must be completed during normal registration period.
Credits: Credits:1 (0,3)

VIS 285 Basic HTML/CSS Graphic Design
Understanding the principles behind web design as expressed through HTML and CSS is a necessity for designers. Having an understanding of HTML/CSS translates to designs and interfaces that function well. This course will introduce the language, structure and semantic language of HTML and CSS. It will also include instruction on how to utilize and style text, images, forms, and layout. This course runs for five (5) weeks. Registration must be completed during normal registration period.
Credits: Credits:1 (0,3)

VIS 312 Art and Creative Direction
The goal of the course will be to explore the skills and responsibilities demanded for a position as an Art Director or Creative Director as it

pertains to working in advertising or editorial design. Students will explore different approaches to creative problem solving combining words and images resulting in strong conceptual work. Students will complete their designs toward a client presentation, and make critical decisions along the way on how the work would ultimately be produced. Prerequisite(s): VIS 222
Credits: Credits:3 (2,2)

VIS 318 Four-Dimensional Design
4D (4-Dimensional) Design explores the principles and techniques of motion design including animation, video, storytelling, concept development, script writing and storyboarding to support the creation of immersive real-world motion design projects. Students will concentrate on using narrative devices and the historical context of animation and cinema to create time-based content that is suitable for traditional and emerging platforms. This course also examines the role motion design plays in the world of advertising, interaction and graphic design including its application in current and emerging technologies. Students will create process books and storymatics to guide their project development. Applications may include 2D animation, 3D animation, film, sound design, VR, narrative structure and more. Prerequisite(s): VIS 116 and VIS 122
Credits: Credits:3 (1,4)

VIS 328 Industry Topics Seminar
Presented by instructors and guest lecturers in a seminar format that will integrate a series of relevant topics and issues that students will encounter in their career. The objective of this course is to provide varied perspectives and insights to supplement the learning experiences the students have encountered throughout the curriculum.
Credits: Credits:1 (1,0)

VIS 332 Graphic Design III
Students will combine their knowledge of type and image, communication theories, problem solving techniques and conceptual skills developed in Graphic Design I and II to create integrated solutions to multi-part, sophisticated design and communication problems. Students will be introduced to strategic design concepts that will help produce successful solutions to complex design problems. The primary focus on software will continue to include both print and screen-based designs. Software will include solutions for vector illustration, raster image manipulation, page layout, print production and web design. Prerequisite(s): VIS 232
Course Offered: Fall, Spring
Credits: Credits:3 (1,2)

VIS 334 Design Production III
Design Production III, will be the culmination of the student's Design Production studies where tools and technology are utilized to professionally execute advanced design projects. Outside resources will be used for software training and classroom time will focus on software integration and workflow, advanced web concepts and execution of sophisticated communication concepts. The primary focus on software will continue to include both print and web, rich-media and interactive. Prerequisite(s): VIS 234
Credits: Credits:3 (2,2)

VIS 336 Advertising I
Advertising is the art of persuasion and as designers we greatly influence the choices made by consumers. In this course students will learn the fundamental aspects of this significant field with an emphasis on the conceptual development, design methodology, creative writing and clear communication necessary to motivate the consumer to action. The basic principles of advertising will be presented, from creative writing to branding consistency and integrity. Graphic design skills in conjunction with these advertising essentials will be encouraged and expected. The hierarchy and structure of an advertising agency will be discussed to provide students with a realistic view of the industry. Prerequisite(s): VIS 232
Course Offered: Fall, Spring
Credits: Credits:3 (2,1)

VIS 338 Illustration for Graphic Designers
Illustration for Graphic Designers gives students the opportunity to create professional conceptual and narrative illustrations that combine design, drawing, typographic and technical skills. This studio-based course focuses on problem-solving methodologies, constant observational sketching, imaginative drawing and typography. Students develop many ideas, the tools to evaluate them, and the ability to judge the value and clarity of those ideas. Projects are solved through the integration of traditional design skills with illustrations created in a variety of media. It provides insight into the language and practice of illustration while offering graphic design students the opportunity to develop a personal approach to illustration that can become integral to their design work. Note: Students cannot receive credit for both VIS 238 and VIS 338 Prerequisite(s): VIS 120 and 222
Course Offered: Fall, Spring
Credits: Credits:2 (0,4)

VIS 340 Industry Preparation
Students will explore and develop professional practices to gain future employment in the field and attain professional success. While students will not be creating a portfolio in this class, they will be introduced to the varied options available for multi-functional portfolio(s) and will choose which option would best promote their work. An emphasis will be placed on defining, organizing and developing self-promotion and marketing materials. It will also encompass job search strategies, interview skills, and industry best practices. Prerequisite(s): VIS 332 and Senior Status
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

VIS 346 Advertising II
This studio-based course builds upon the principles that were studied in Advertising I and allows for a more concentrated exploration into the myriad ways to reach a consumer. This encompasses conceptualization, design and production of multi-platform advertising campaigns. Students will work individually and in teams to complete projects based on client direction and budget restrictions. Traditional and developing media venues will be considered with an emphasis on appropriate and unique creative solutions to advertising problems. Prerequisite(s): VIS 336
Course Offered: Fall, Spring
Credits: Credits:2 (0,2)

VIS 350 Photography II
This studio-based course gives students a chance to master the skills learned in previous design and photography classes and develop advanced conceptual and technical skills into the study and practice of commercial art photography. Students will explore the expressive, emotional and physical characteristics of different types of light in real-world scenarios. Emphasis will be placed on dramatic and cinematic lighting techniques as well as advanced lighting techniques such as multiple source lighting, natural light, strobes, filters and gels. The logistics of studio and on-location lighting will be considered. Students will recognize, analyze, and apply different characteristics of light and learn to control light for proper exposure and creative expression. Consistent post-processing, retouching, color control, and professional file management workflow will be instilled. Portraiture inside and outside of the studio, product photography, narrative photography, and other topics will be explored. Students will gain a deeper and broader understanding of photographic techniques and apply these techniques with an emphasis on developing their own style of creative expression. Note: Students cannot receive credit for both VIS 250 and VIS 350 Prerequisite(s): Department Approval or VIS 225
Course Offered: Fall, Spring
Credits: Credits:2 (0,4)

VIS 353 Editorial Design
Emphasis in this class will be on the creation of multiple page documents for the editorial design market. Students will explore numerous avenues for editorial design including, magazine, catalog, newspaper and book design, while gaining the advanced software skills needed for the creation of these documents. Prerequisite(s): VIS 370
Course Offered: Spring
Credits: Credits:3 (2,2)

VIS 354 Corporate Identity
This course will explore the visual components behind creating and establishing a corporate identity. Corporations require logos, signs and symbols as part of an elaborate identification system. Visual imagery related to the corporation projects a positive image and public perception of a corporation's identity. This class will explore creative solutions that define and present "corporate identity" through visual imagery. Prerequisite(s): VIS 222 and 230 or Chair approval
Credits: Credits:3 (2,2)

VIS 355 Advanced Package Design
The design of consumer product packaging must meet the complex and sometimes conflicting needs of manufacturers, distributors, retailers and consumers. Building upon the fundamental package design concepts and problem-solving skills developed in prerequisite coursework, students

will learn advanced techniques for the creation of sophisticated package designs through the use of both traditional and digital layout, typography, graphics, photography, as well as two-dimensional and three-dimensional design techniques. Prerequisite(s): VIS 254
Credits: Credits:3 (2,2)

VIS 356 Internship I
A select number of students who meet specific standards will be given the special opportunity to intern at industry related companies and organizations. Students will adhere to strict guidelines completing their internship in a professional environment. Students will gain valuable knowledge and typically improve their technical skills. Prerequisite(s): Completion of 60 credits with a GPA of 3.0 in the Visual Communications curriculum and department approval required.
Course Offered: Fall, Spring
Credits: Credits:3 (1,0,6)

VIS 357 Internship II
This special elective, available to individually selected students, offers an additional education/work combination that provides valuable professional experience within the art field. This is a unique opportunity to gain knowledge that may not otherwise be attainable within a traditional educational setting. Prerequisite(s): Department approval.
Course Offered: Fall, Spring
Credits: Credits:3 (1,0,6)

VIS 371 Animation
An exploration of animation techniques and applications from early development to current works and future trends. Students will study selected traditional and electronic animation sequences from the initial storyboard stage through the finished production. The emphasis of this course will be on computer animation with application to interactive presentation, CD-ROMs and the Internet. Prerequisite(s): VIS 210 and 230
Credits: Credits:3 (2,2)

VIS 373 Multi-Media
Students will learn to combine graphics, animated "gif" files, video and sound files to create linear and interactive presentations. Graphic design, typography, interface design and information organization will be emphasized. Prerequisite(s): VIS 310
Credits: Credits:3 (2,2)

VIS 380 Illustrative Style I
Students explore new styles and media. Reference and support material coursework will be acquired though research of reading materials pertaining to illustration techniques. In and out of class research will be applied through recreating the process and procedures utilized by illustration professionals to solve specific problems. Prerequisite(s): VIS 252 or 256
Credits: Credits:3 (2,2)

VIS 381 Figure Drawing II
A drawing class designed for the illustration track student that will expand on many of the concepts first introduced in the Figure Drawing I (VIS 214) class. A variety of mediums will be incorporated including pencil, charcoal, conte, ink pastel, among others. Prerequisite(s): VIS 214
Credits: Credits:3 (2,2)

VIS 382 Illustrative Style II
Continue to encourage experimentation in solving pictorial problems. By semester's end, each student's goal will be to visually communicate with a consistent medium and personal style to their work. Prerequisite(s): VIS 380
Credits: Credits:3 (2,2)

VIS 383 Sculpting and Painting the Figure
This course builds on the prerequisites VIS 214 and VIS 381. However, the medium of paint and clay are introduced into this class to expose the student to a new medium approach to representing the human figure. Approximately one-quarter of the class is devoted to three-dimensional representation of the figure through modeling the nude figure in clay. The remaining three-quarters of the class are devoted to the medium of painting the nude and clothed human figure. Prerequisite(s): VIS 214
Credits: Credits:3 (2,2)

VIS 410 Digital Imaging II
This course will build upon prior knowledge and experience with digital images to help students broaden their understanding and creative use of digital imaging concepts and techniques. Topics will relate to graphic design, illustration, print production and web page design applications. Prerequisite(s): VIS 310
Credits: Credits:3 (2,2)

VIS 412 Web Page Design
The theoretical and practical exploration of the fundamentals of two dimensional design, layout and typography as they pertain to web site design. Students will visit many different types and styles of web sites and learn to analyze them for creative design, organization of content, flow and navigation. By visiting and discussing sites that are well-designed as well as those that are poorly designed, students will themselves become better web site designers. Prerequisite(s): VIS 150 or 210 and VIS 310
Credits: Credits:3 (3,1)

VIS 414 Interaction Design
Interaction Design is an advanced course that pushes students understanding of web page creation to include the methodologies, concepts and strategy of designing user experiences. Interaction Design will stress the planning, design, and production of effective user interface design, information design and information architecture based upon web standards and best practices. The course will also introduce the student to advanced web creation tools including the design for specific digital devices. Students will produce a variety of concepts-from rough pencil sketches to digital prototypes-in a rigorous environment. Prerequisite(s): VIS 332
Course Offered: Fall, Spring
Credits: Credits:3 (2,1)

VIS 416 Senior Project I
The Senior Project I class is the capstone of the Visual Communications baccalaureate experience. In this course students will be developing and defining their own voice in both written and visual form. Students will begin to develop a self-directed project that will culminate in Senior Project II, VIS 426, with a book, portfolio and exhibition. The individual creative process will be encouraged through research, experimentation, writing and critique. Note: Students cannot get credit for VIS 416 and 416W; VIS 416W can be used to fulfill the writing intensive requirement. Prerequisite(s): VIS 332 or IXD 320 and IXD 322
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 418 Portfolio
The portfolio class is one of the capstone courses of the Visual Communications baccalaureate experience. This lecture-based course focuses on portfolio design techniques and solutions including professional case studies, self-promotion approaches, visual display methods and online portfolio tools. In this course the students review their current and past artworks for inclusion in a professional design portfolio. A series of group critiques with both internal and external reviewers will aid in the development of this body of work as well as strengthen the student's ability to professionally present and defend their artwork. At the culmination of this course the students present their final portfolios to industry professionals. Prerequisite(s): Senior Status
Course Offered: Fall, Spring
Credits: Credits:3 (3,0)

VIS 425 Senior Project
This course focuses on creating visual imagery related to the research and development of an original concept selected by the student. Students should consult with instructor, and create a preliminary proposal, before the course begins. Each student will produce a series of professional quality works of art, which will be displayed in a senior exhibition. Prerequisite(s): VIS 332
Credits: Credits:3 (1,3)

VIS 426 Senior Project II
The Senior Project II class is one of the capstone courses of the Visual Communications baccalaureate experience. In this final semester students will produce a series of professional quality works of art, which will be displayed in a senior exhibition and book. A series of group critiques with both internal and external reviewers will aid in the development of this body of work as well as strengthen the students' ability to professionally present and defend their artwork. Note: Students cannot get credit for VIS 426 and

426W; VIS 426W can be used to fulfill the writing intensive requirement.
Prerequisite(s): VIS 416 Corequisite(s): VIS 418
Course Offered: Fall, Spring
Credits: Credits:3 (2,2)

VIS 474 Agency I
In this course, students will gain valuable experience by working on actual projects for selected not-for-profit clients. This pro-bono work will provide students the opportunity to develop professional quality samples for their portfolios, while further developing skills in design, production, presentation and job-tracking. Interpersonal and communication skills within a corporate environment will be emphasized. Enrollment in this course requires portfolio review by a faculty committee. Prerequisite(s): VIS 372
Credits: Credits:3 (2,2)

VIS 476 Agency II
As a continuation of Agency I, this course will enable students to follow through on long-term or large projects to completion. Students will continue to gain valuable experience by working on actual projects for selected not-for-profit clients. Enrollment in this course requires a portfolio review by a faculty committee. Prerequisite(s): VIS 372
Credits: Credits:3 (2,2)

VIS 484 Illustration Portfolio I
In this course, students will use all the technical skills, conceptual abilities and general knowledge accumulated throughout their illustration education, to develop their illustration portfolios. Presentation, marketing and business issues facing today's illustrator will be discussed.
Prerequisite(s): VIS 382
Credits: Credits:2 (1,3)

VIS 485 Illustration Portfolio II
Techniques for illustrating ideas, concepts or emotions. Elicit a personal, creative interpretation of words and ideas from literature, music, film and editorial text. The goal will be to transform one form of art into another, from verbal to visual. Selection of the most appropriate medium and style to make text and art come together for a highly effective interpretation.
Prerequisite(s): VIS 382
Credits: Credits:3 (2,2)

VIS 487 Drawing and Painting Studio
A class designed for Senior Illustration students. A series of specific advanced projects will be assigned in order for the Senior Illustration student to produce a portfolio of high quality works which display an acute awareness of contemporary trends.
Credits: Credits:3 (2,2)

WIND TURBINE TECHNOLOGY (WTT)

WTT 101 Introduction to Wind Energy and Turbine Technology
This course introduces students to the fundamentals of wind turbine mechanical systems, including wind energy potential and application to power generation. Topics include wind energy principles, wind site assessment, wind turbine components, power generation machinery, control systems, connection to the electric grid, and maintenance. Laboratory assignments will reinforce the topics covered by theory through relevant experiments performed by the students. Corequisite(s): WTT 101L
Credits: Credits:3 (2,2)

WTT 301 Wind Turbine Mechanical Systems
This course provides students with an in-depth knowledge of wind turbine mechanical systems. The course covers types of industrial fasteners, crane and rigging, power transmission systems, and rotating equipment that are utilized in wind turbines. Laboratory assignments will reinforce the topics covered by theory through relevant experiments performed by the students. Prerequisite(s): WTT 101 Corequisite(s): WTT 301L
Credits: Credits:3 (2,2)

WTT 307 Principles of Fluid Systems
This course covers the fundamentals and basic principles of fluid (hydraulic) power systems and their control circuits. Hydraulic components such as directional control valves, flow control valves, and pressure control valves will be covered. Accumulators, linear/rotary actuators and hydraulic pumps will be discussed along with practical applications and examples related to Wind Energy technology. Student will also acquire knowledge to read and draw hydraulic circuit schematics. Additionally a simulation software will be introduced to complement laboratory activities and examine hydraulic circuits. Prerequisite(s): EET 104 Corequisite(s): WTT 307L
Credits: Credits:3 (2,2)

WTT 314 Wind Turbine Motor Control
This hands-on and theory course covers the principles and applications of wind turbine motor control systems. The course introduces the student to a broad range of motor types and control systems. Topics covered include: RLC circuits, single and three-phase circuits that contain AC and DC motors, transformers, starters and low voltage controls, time and frequency domain representations, analysis and design of feedback control systems, and applications of different types of integrated circuits. It provides an overview of electric motor operation, selection and control. Laboratory assignments will reinforce the topics covered by theory through relevant experiments performed by the student and will include the writing of laboratory reports.
Prerequisite(s): PHY 136 or EET 104 or ENV 100 Corequisite: WTT 314L
Credits: Credits:3 (2,2)

WTT 415 Wind Turbine Trouble Shooting
This course discusses advanced troubleshooting concepts and techniques. Students will learn about maintenance strategies, common failures of Wind Turbines, test devices and tools and subsystems of Wind Turbines. Students will gain practical experience with preventive maintenance and condition monitoring of gearing system, hydraulic systems, bearing & hub, rooter blade, main shaft, brake, generator, electric and control systems. Practical exercises will include troubleshooting of the above-mentioned systems.
Prerequisite(s): WTT 301T and WTT 307T
Credits: Credits:4 (1,6)

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Building Management Systems Controls & Retro Commissioning Manager
BS, Farmingdale State College

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Ambar Batista

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BS, Farmingdale State College

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MPTC Basic, NYS Police Academy
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Gary Borowski
University Police Investigator 1

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Chancellor's Award for Excellence in Professional Service, 2026

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Chancellor's Award for Excellence in Professional Service, 2021

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Chancellor's Award for Excellence in Professional Service, 2022

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Chancellor's Award for Excellence in Professional Service, 2019

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Fellow, American Society of Civil Engineers

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Chancellor's Award for Excellence in Faculty Service, 2007

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Chancellor's Award for Excellence in Teaching, 2001

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MA, Stony Brook University
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Chancellor's Award for Scholarship & Creative Activities, 2016

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American Institute of Architects (AIA) Educators Award, 2015

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Chancellor's Award for Excellence in Teaching, 2011
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Farmingdale Foundation Award for Excellence in Teaching, 2003
Chancellor's Award for Excellence in Teaching, 2005

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Chancellor's Horizon Award for Faculty Research and Scholarship, 2025

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JD, Emory University Law School
Chancellor's Award for Excellence in Faculty Service, 2021

Victoria Smith
Assistant Professor of History, Politics and Geography
PhD, Stony Brook University

Orla Smyth-LoPiccolo
Professor of Architecture & Construction Management
BS, MA, The University of Dublin
MS Arch., New York Institute of Technology
PDip (CM), New York University
RA, New York
Chancellor's Award for Excellence in Teaching, 2018
American Institute of Architects (AIA)Educators Award, 2019
SUNY Sustainability Fellow 2025-2026

Sung Wook (Sean) Son
Assistant Professor of Sport Management
BS, School of Visual Arts
MA, Brunel University
PhD, Indiana University

Hongyu (Garrison) Song
Associate Professor of Business Management

BE, Tianjin University
MS, Columbia University
MA, University at Albany
PhD, Syracuse University

Monique Sosnowski
Assistant Professor of Criminal Justice
BA, BS, Loyola University Chicago
MSc, University of Bristol
PhD, CUNY John Jay College of Criminal Justice

Kenneth Sossa
Assistant Professor of Biology
BS, Hampton University
MS, PhD, Albert Einstein College of Medicine

William Steedle
Assistant Dean of the School of Business
Associate Professor of Visual Communications
AAS, Farmingdale State College
BPS, SUNY Empire State University
MA, New York Institute of Technology
Farmingdale Foundation Award for Outstanding Service to the College, 1991
Chancellors Award for Excellence in Faculty Service, 2004

Arzu Susoglu
Assistant Professor of Computer Security
MS, New York Institute of Technology

Jeanette Sutherland
Assistant Professor of Biology
BS, Fordham University
MS, New York Medical College
PhD, New York Medical College

Aida Sy
Associate Professor of Business Management
BA, Ecole Nationale Superieure Post & Telecom Paris
BA, MSc, University of Paris IX Dauphine
PhD, University of Paris I Pantheon-Sorbonne

Dean Tauches
Lecturer of Sociology and Anthropology
PhD, University at Albany

Anthony Teets
Lecturer of English and Humanities
PhD, Stony Brook University

Melisa Tekin
Assistant Professor of Visual Communications
MFA, Rutgers University

Mengsteab Tesfayohannes-Beraki
Associate Professor of Business Management
PhD, University of Graz Austrian

Jack Thomas
Associate Professor & Chair of Nutrition Science and Wellness
BS, MFN, Bowling Green State University
PhD, The Ohio State University

Tesi Thomas
Assistant Professor of Nursing
BS, Sacred Heart College of Nursing, TN, India
MS, University of Phoenix, AZ

Svetlana Tlupova
Associate Professor of Mathematics
BS, Kabardino-Balkar State University
MS, PhD, Tulane University

Emre Tokgoz
Assistant Professor of Computer Security
MS, Universisty of Ankara
MA, MS, University of Oklahoma
MS, Johns Hopkins University
PhD, PhD, University of Oklahoma

Jinnette Tolentino Collado
Assistant Professor of Chemistry
BS, York College
MS, Queens College
PhD, Stony Brook University

Carly Tribull
Associate Professor of Biology
BA, University of California, Berkeley
PhD, Richard Gilder Graduate School at the American Museum of Natural History

Ebru Ulusoy
Associate Professor of Business Management
BA, Istanbul University
MS, Marmara University
PhD, University of Texas-Pan American

Geraldo Vasquez
Associate Professor of Business Management
BA, MS City University of New York - Queens College
DBA, Temple University

Mary Villani
Professor of Computer Systems
BS, Binghamton University
MBA, DPS, Pace University
Chancellors Award for Excellence in Teaching, 2013

Nanda Viswanathan
Assistant Dean of the School of Business
Professor & Chair of Business Management
B Tech, Andhra University
PGDBM, Indian Institute of Management
PhD, Ohio State University

David Vitt
Associate Professor of Economics
BA, University of Florida
MA, PhD, Florida International University

Richard Vogel
Dean of the School of Business
Professor of Economics
BS, Florida Atlantic University
MA, Georgia State University
PhD, Florida International University
Fulbright Fellow, Mongolia, 2007

Susan Vogell
Associate Professor & Chair of Dental Hygiene
AAS, BS New York University
MBA, Bernard M Baruch College
EdD, University of New England

Thomas Ward
Dean of the School of Arts and Sciences
Professor of History, Politics & Geography
BA, Hampden-Sydney College
MA, Clemson University
PhD, University of Southern Mississippi

Tao Wang
Assistant Professor of Computer Systems
BS, Stony Brook University
ME, Cornell University
PhD, CUNY Graduate Center

Jutong Wen
Assistant Professor of Business Management
PhD, Mississippi State University

Lindsay Weinberg
Assistant Professor of Science, Technology, & Society
BA, Binghamton University
PhD, University of California

Bentley Whitfield
Lecturer of English and Humanities
MA, Columbia University

Kimberly Wild
Assistant Professor of Visual Communications
BTech, Farmingdale State College
MFA, LIU Post

Sean Wilson
Assistant Professor of Criminal Justice
PhD, Texas Southern University

Gary Wojtas
Lecturer of Professional Communications
EdD, Dowling College

Lan (Andrea) Xu
Assistant Professor of Business Management
BA, Fudan University, China
MA, University of Maryland
PhD, Washington University in St. Louis

Lijian Xu
Associate Professor of Electrical & Computer Engineering Technology
BS, University of Science and Technology, China
MS, University of Central Florida
PhD, Wayne State University

Yajun Yang
Professor of Mathematics & Program Director
BS, E. China Normal University
MS, PhD, University of Iowa

Mengsha Yao
Assistant Professor of Mathematics
BS, MS, Dalian University of Technology, P.R. China
MS, PhD, University of Southern California

Xiaojin Ye
Assistant Professor of Computer Systems
BA, Hunter College
MS, Kansas State University
MA, PhD, CUNY Graduate Center

Chunhui Yu
Professor of Mathematics
BS, University of Science and Technology of China
PhD, University of Alabama

Theresa Zahor
Librarian & Acting Library Director
BA, SUNY Oswego
MLS, LIU Post
MS, Stony Brook University
Chancellor's Award for Excellence in Librarianship, 2016

Xu Zhang
Professor of Economics
BA, Xiamen University, P.R. China
MA, PhD, Binghamton University

Zhou (Joe) Zhang
Assistant Professor of Mechanical Engineering Technology
BE, Southwest Jiaotong University
ME, Southeast University
PhD, Stevens Institute of Technology

Yihe Zhang
Assistant Professor of Computer Security
BS, MS, Sun Yat-sen University
MS, Carnegie Mellon University
PhD, University of Louisiana at Lafayette

Stephanie Zimmerman
Assistant Professor of Nursing
BS, Farmingdale State College
MS, SUNY Empire State University
Certified Nurse Educator

Bahar Zoghi

Associate Dean of the Pasternack School of Engineering Technology
Professor of Architecture and Construction Management
BS, Polytechnic University of Tehran
MS, PhD, CUNY Graduate Center
PE, New York
Farmingdale Foundation Award for Excellencein Teaching, 2014
Chancellor's Award for Excellence in Professional Service, 2023

Mohamad Zoghi Moghadam
Associate Professor of Mechanical Engineering Technology
BS, Sharif University of Technology
MS, PhD, The City College of New York

ACADEMIC & INSTRUCTIONAL SUPPORT STAFF

Nastassja Aguece
Laboratory Manager, Biology
BS, Farmingdale State College
MS, Long Island University

Solomon Ayo
Instructional Support Specialist, Physics
BS, SUNY Oneonta

Stacey Bharrat
Academic Advisor, Science, Technology & Society
BA, Temple University

Rebecca Bond
Instructional Support Specialist, Biology
AAS, BS, Farmingdale State College

Brittany Buchan
Academic Advisor, Computer Systems
AA, Nassau Community College
BA, SUNY Cortland

Jessica Conze
Senior Counselor, School of Business
MA, Stony Brook University
Chancellor's Award for Excellence in Professional Service, 2023

Janie Daly
Flight Center Director
BFA, MBA, Adelphi University

Yolanda Drakkir
Instructional Support Specialist, Visual Communications
AAS, Farmingdale State College
BPS, SUNY Empire State University

Kimberly Forman
Assistant to the Dean, School of Business
BS, Farmingdale State College

Tara Gugliuzza
Instructional Support Specialist, Nursing
BSN, Chamberlain University

Denise Hernandez
Instructional Support Specialist, Biology
BS, Stony Brook University

Carlos Jativa
Instructional Support Specialist, Electrical/Computer Engineering Technology
BS, National Polytechnic School
MS, Stony Brook University

Mercy Jose
Instructional Support Technician, Chemistry
BS, BEd, Mahatma Gandhi University

John Kubin
Instructional Support Specialist, Chemistry
BS, MS, St. John's University

Lisa Bordonaro-Lubrano
Internship Coordinator, School of Business
MS, New York Institute of Technology

Kristen Malsheimer
Instructional Support Technician, Medical Laboratory Science
AS, Farmingdale State College

Matthew Odierna
Instructional Support Technician, Computer Security
BS, Farmingdale State College

Beth Rosenberg
Academic Advisor, School of Business
BS, LIU Post

Elizabeth Salnave
Senior Academic Advisor, Science, Technology, & Society
BS, Farmingdale State College
MSW, Stony Brook University

Donna Schneider
Administrative Assistant, Computer Security

Zhi-Hua Shum
Chief Mechanic,Aviation Center
BS, Farmingdale State College
FAA A&P License

Tamara Sooknauth
Senior Academic Advisor & Assistant to the Chair, Science, Technology, & Society
BS, Farmingdale State College
MA, Stony Brook University

Matthew Stanco
Greenhouse Facility Coordinator, Urban Horticulture and Design
BS, University of Maine

Cynthia Thomas
Instructional Support Specialist, Biology
AAS, Farmingdale State College
BS, Empire State College
MS, New York Institute of Technology
Chancellor's Award for Excellence in Professional Service, 2019

Michael Trzaska
Chief Flight Instructor, Aviation Center
BS, LIU Post

Linda Vitale
Instructional Support Technician, Pasternack School of Engineering Technology
BS, SUNY Oneonta

Daniel Weinman
Instructional Support Specialist, Mechanical Engineering Technology
BS, Farmingdale State College
MS, Stony Brook University
Farmingdale Foundation Award for Excellence in Professional Service, 2016

Andy Winslow
Instructional Support Technician, Biology
BS, MS, Stony Brook University

Dimitrios Zarafopoulos
Accreditation and Assessment Manager
MBA, Nottingham Trent University

CHANCELLOR'S AWARDS RECIPIENTS

Farmingdale State College Chancellor's Awards Recipients

The Chancellor's Awards for Excellence, established in 1973, are System-level honors conferred to acknowledge and provide system-wide recognition for consistently superior professional achievement and to encourage the ongoing pursuit of excellence. These programs underscore SUNY's commitment to sustaining intellectual vibrancy, advancing the boundaries of knowledge, providing the highest quality of instruction, and serving the public good.

As of May 2026, over 320 Farmingdale State College faculty, staff, librarians and students have received the Chancellor's Award.

Distinguished Professor:

Dr. Robert Saunders, History, Politics and Geography, 2023

Distinguished Teaching Professor:

Dr. Harold Highland**, Data Processing, 1978
Dr. I. Edward Alcamo**, Biology, 1994
Dr. John A. Winn**, Mathematics, 1998
Dr. Miriam K. Deitsch**, Sociology, 2002
Dr. Ann R. Shapiro*, English, 2003
Dr. Sheldon P. Gordon*, Mathematics, 2006
Dr. Vicki K. Janik, Professional Communications, 2007
Dr. John Fiorillo*, Electrical Engineering Technology, 2011
Dr. Louise Napolitano-Carman*, English/Humanities, 2018
** Emeritus/Retired | ** Deceased*

Distinguished Service Professor:

Prof. Casimir Rakowski**, Mechanical Engineering Technology, 1980
Dr. Charles Fishman*, English, 1989
Prof. Cornelius P. McAdorey**, English, 1992
Dr. Hazem Tawfik, Mechanical Engineering Technology, 2001
Dr. Amit Bandyopadhyay, Architecture/Construction Management, 2004
Prof. Yelleshpur Dathatri*, Electrical Engineering Technology, 2006
Prof. Serdar Z. Elgun*, Mechanical Engineering Technology, 2007
Dr. Daniel S. Marrone*, Business Management, 2008
Prof. Marjaneh Issapour, Electrical/Computer Engineering Technology, 2026
** Emeritus/Retired | ** Deceased*

Excellence in Teaching:

Prof. Casimir Rakowski**, Mechanical Technology, 1973
Dr. Austin Frishman*, Biology, 1973
Prof. Ronald Dougher**, Social Science, 1973
Dr. Abraham Blinderman, English, 1974
Prof. Stanley Mehlman*, Chemistry, 1974
Dr. Harvey Barke**, Horticulture, 1974
Prof. Anne Senyk**, Sociology, 1974
Dr. Edwin F. Ore**, English, 1975
Dr. Harold Highland**, Data Processing, 1976
Dr. Philip Silverstein**, Dental Hygiene, 1976
Dr. Stanley Lamberg*, Medical Laboratory Technology, 1976
Prof. Cheryl Hicks*, Secretarial Science, 1978
Dr. Michael Abbatiello**, Veterinary Science, 1982
Dr. Frank Pellegrini**, Chemistry, 1982
Dr. Charles Fishman*, English, 1985
Prof. James Friel*, English, 1986
Dr. Richard Telloni*, Agriculture, 1986
Dr. Frank Cavaioli*, History, Economics, Politics, 1987
Dr. Lois Rafenski*, Nursing, 1988
Dr. Stanley Feist**, Psychology, 1989
Dr. I. Edward Alcamo**, Biology, 1990
Prof. Carolyn Cuttler*, Office Management, 1990
Dr. Roger Hoffman*, Psychology, 1990
Prof. Eileen Eichler*, Business, 1993
Prof. Linda Calderone*, Business, 1993
Dr. Marlene San Miguel Groner, English, 1993
Dr. Philip Poynor*, Aerospace Technology, 1994
Dr. Laurie Rozakis, English/Humanities, 1994
Dr. John Fiorillo*, Electrical Engineering Technology, 1994
Prof. Angela Blas*, Business & Computer Information Systems, 1995
Dr. Lois Mignone*, Modern Languages, 1995
Dr. Peter Nolan**, Physics, 1995
Prof. Gary Rupp*, Business & Computer Information Systems, 1996
Prof. Melanie Vainder**, English/Professional Communications, 1996
Dr. Alexander Short, Business, 1996
Dr. Miriam K. Deitsch**, College Studies, 1997
Dr. Gary Brown*, Biology, 1998
Prof. Judith Friedman, Dental Hygiene, 1998
Dr. Barry Capella, English, 1999
Dr. Matilde Fava**, Modern Languages, 1999
Dr. Henry Sikorski*, English/Humanities, 2000
Prof. Joseph Betz, Architecture/Construction Management, 2000
Dr. Vicki Janik, English/Humanities, 2001
Prof. Sharon Struminger*, Dental Hygiene, 2001
Dr. Louise Napolitano-Carman*, English/Humanities, 2002
Prof. Margaret Porciello*, Computer Systems, 2002
Dr. Charles N. Adair*, Biology, 2003
Dr. Mary Stedman**, Nursing, 2003
Dr. Agnes Kalemaris, Mathematics, 2004
Dr. Laura Mueller-Joseph*, Dental Hygiene, 2004
Dr. Michael Goodstone, Psychology, 2005
Dr. Diane M. Smith*, English, 2006
Dr. Richard R. Iversen*, Urban Horticulture and Design, 2008
Dr. Margery L. Brown**, English/Humanities, 2008
Dr. Marcia B. Littenberg*, English/Humanities, 2008
Prof. Henry M. Bojack, Computer Systems, 2010
Prof. Allison J. Puff, Visual Communications, 2010
Dr. Jeffrey Gaab, History, 2011
Dr. Karen Escolas*, Medical Laboratory, 2012
Dr. Marie Pullan*, Computer Systems, 2012
Dr. Mary Villani, Computer Systems, 2013
Prof. Donna Proper, Visual Communications, 2014
Dr. Jennifer Bryer*, Nursing, 2015
Dr. Luisa Nappo-Dattoma*, Dental Hygiene, 2015
Dr. Kathleen Walsh*, Nursing, 2016
Prof. George Fernandez*, Visual Communications, 2016
Dr. Sarah Gross, Biology, 2017
Prof. Janet Gruber*, Dental Hygiene, 2017
Dr. Arthur Hoskey, Computer Systems, 2017
Dr. Xu Zhang, Economics, 2018
Prof. Orla Smyth-LoPiccolo, Architecture/Construction Management, 2018
Dr. Jonathan Lehrer, Urban Horticulture and Design, 2018
Dr. Lori Goodstone, Nursing, 2019
Dr. Doug Kim, Electrical Engineering Technology, 2021
Dr. Bryan Field, Physics, 2021
Dr. Monica Diamond-Caravella*, Nursing, 2022
Dr. Jennifer Gonder, Psychology, 2023
Dr. Yue (Jeff) Hung, Mechanical Engineering Technology, 2025
Dr. Tracy Callender, Biology, 2025
Dr. Michael Figuccio, Psychology, 2025
Dr. Ilknur Aydin, Computer Systems, 2026
Dr. Edward Plough, English/Humanities, 2026
** Emeritus/Retired | ** Deceased*

Excellence in Adjunct Teaching:

Prof. Howard Gold, Professional Communications, 2014
Prof. Robert Seyler, Automotive & Mechanical Engineering Technology, 2014
Prof. Susan Candia, English & Humanities, 2015
Prof. John DeCarlo, Professional Communications, 2015
Dr. Jack Thomas, Biology, 2015
Prof. Amanda Lavery, Biology, 2016
Prof. Joseph Rossi, Criminal Justice, 2016
Prof. William Dodge, Professional Communications, 2017
Prof. Jennifer Mignano-Brady, English & Humanities, 2017
Prof. Maria Randazzo-Davis, Business Management, 2017
Prof. David Guarino, Visual Communications, 2018
Prof. Kathleen Hecht, Biology, 2019
Prof. Kimberly Wild, Visual Communications, 2019
Prof. Bentley Whitfield, English & Humanities, 2020
Dr. Shellon Lees, Computer Systems, 2021
Prof. George Kuscsik, Computer Systems, 2021
Prof. Andrew Manzo, History, Politics & Geography, 2022
Dr. David Byrne, Criminal Justice, 2024
Prof. Michelle Tuchinsky, Computer Systems, 2025

Excellence in Librarianship:

Ms. Carol Greenholz**, 1988
Ms. Judi Bird*, 2002
Ms. Theresa Zahor, 2016
Ms. Danielle Apfelbaum, 2024
Ms. Kathryn Machin, 2026
** Emeritus/Retired | ** Deceased*

Excellence in Faculty Service: *(Est. in 2004)*

Prof. William Steedle, Visual Communications, 2004
Dr. Kathleen Jacquette**, English, 2005
Prof. Marjaneh Issapour, Electrical Engineering Technology, 2007
Prof. Ruth Sapir*, Computer Systems, 2010
Dr. Lloyd Makarowitz*, Physics, 2011
Dr. Joanne Lapidus-Graham, Nursing, 2014
Prof. Wayne Krush*, Visual Communications, 2015
Dr. Matilde Fava**, Modern Languages, 2016
Dr. Susan Barrett-Landau*, Nursing, 2017
Dr. Fran Cherkis*, Nursing, 2018
Prof. Lou Scala, Aviation, 2019
Dr. Maureen Tsokris*, Dental Hygiene, 2019
Prof. Sarbjit Singh, Sport Management, 2021
Dr. Susan Conforti, Medical Laboratory Science, 2021
Dr. Nancy Maggio, Nursing, 2023
Dr. Marya Howell-Carter, Psychology, 2023
Dr. Shannon Olivieri, Nursing, 2025
** Emeritus/Retired | ** Deceased*

Excellence for Scholarship & Creative Activities: *(Est. in 2002)*

Dr. Daniel S. Marrone*, Business Management, 2011
Dr. Ahmed Ibrahim*, Mechanical Engineering Technology, 2012
Dr. Robert Saunders, History, Politics and Geography, 2016
Prof. Thomas Germano, Visual Communications, 2017
Dr. Jill O'Sullivan, Computer Systems, 2019
Dr. Lynn Marsh, Dental Hygiene, 2020
Dr. Danden Chen, History, Politics & Geography, 2022
Prof. Jack Harris, Visual Communications, 2022
Dr. Kerry Lutz, Biology, 2023
Dr. Angela Jones, Sociology & Anthropology, 2024
Dr. Worku Bitew, Mathematics, 2025
Dr. Jack Simonson, Physics, 2026
Dr. Michelle Miranda, Center for Criminal Justice Studies, 2026
** Emeritus/Retired | ** Deceased*

Chancellor's Horizon Award for Faculty Research and Scholarship: *(Est. in 2025)*

Dr. Kathryn Hauschild, Psychology, 2025

Excellence in Professional Service:

Ms. Paula Shaer*, Admissions, 1978
Mr. Ramon Rodriguez*, Student Affairs, 1979
Ms. Ann Diehl*, Continuing Education, 1987
Ms. Janet Snyder*, Admissions, 1988
Mr. Reginald T. Marshall*, Learning Center, 1989
Ms. Kathy Kollar*, Office Management, 1991
Mr. Fred Harrison**, Physical Plant, 1992
Mr. Wayne T. Clavering*, Outcomes Assessment, 1993
Mr. Michael Knauth*, Head Librarian, 1994
Ms. Terry Esnes-Johnson*, Dean of Students, 1996
Mr. Jack C. Petrich*, Physical Plant, 1997
Ms. Charlette Bleecker*, Dental Hygiene, 1998
Ms. Valerie Madeska, Medical Laboratory Technology, 1999
Mr. Brian Maher*, LIEOC, 2002
Ms. Kathryn S. Coley*, Communications, 2003
Mr. Michael Harrington*, Athletics, 2004
Ms. Lucille Wesnofske*, Small Business Development Center, 2006
Ms. Diane E. Melamed*, Student Accounts, 2008
Mr. John W. Hendrickson, Construction/Architectural Management, 2009
Ms. Saundra Lory-Snyder*, Undeclared Major, 2011
Ms. Marguerite Fagella-D'Aloisio*, Student Success Center, 2012
Mr. Peter Greco, Visual Communications, 2012
Ms. Cindy McCue*, Registrar, 2013
Mr. Tom Azzara, Athletics, 2013
Mr. Kenneth J. Tax, Engineering Technology, 2014
Ms. Theresa Dember-Neal*, Nursing, 2015
Ms. Carol McNamara, Dental Hygiene, 2016
Mr. Daniel T. Arcieri*, Biology, 2016
Ms. Sylvia E. Nicosia, Institutional Advancement, 2017
Ms. Darleyne Mayers, LIEOC, 2019
Ms. Lauren Romer, Registrar, 2019
Ms. Cynthia Thomas, Biology, 2019
Ms. Marilyn Flores, Registrar, 2020
Ms. Joanne Ulrich*, Use of Facilities, 2020
Mr. Jonathan Goldstein, Marketing & Communications, 2021
Mr. Richard Beatty, Admissions, 2022
Mr. Kevin Murphy, Health & Wellness Center, 2022
Dr. Erwin Cabrera, RAM Program, 2022
Ms. Jessica Bernadotte, Business Management, 2023
Dr. Bahar M. Zoghi, School of Engineering Technology, 2023
Ms. Lauren Bazhdari, Business Management, 2024
Ms. Diane Kazanecki Kempter*, Financial Aid, 2024
Ms. Kate Calabrese, Administration & Finance, 2025
Ms. Karen Gelles, Library, 2025
Ms. Amanda Lavery, Pre-Health Professions, 2025
Ms. Michelle Johnson, Alumni Engagement, 2026
** Retired | ** Deceased*

Excellence in Classified Service: *(Est. in 2009)*

Ms. Amy Kaplan, Human Resources, 2009
Ms. Nina Von Deesten*, Modern Languages and History, Economics & Politics, 2010
Mr. Daniel Daugherty, University Police, 2011
Ms. Christine Dose**, Student Affairs, 2012
Ms. Deborah Faulhaber*, Health Sciences, 2013
Ms. Barbara Sarringer*, Psychology, 2014
Ms. Vanda Bordies, Urban Horticulture and Design, 2016
Ms. Keri Hauff, University Police, 2017
Ms. Mary-Beth Liegmann*, School of Business, 2018
Mr. Luis Llano, University Police, 2019
Ms. Tara Zajack, Mechanical Engineering Technology, 2020
Ms. Suzanna Goench, Administration & Finance, 2022
Ms. Sandra Hahl*, Liberal Arts and Sciences, 2023
Ms. Annetta Frank, Administration & Finance, 2024
Ms. Natalie Barton, Library, 2025
Ms. Linda Rennie, Physics, 2026
** Retired | ** Deceased*

Chancellor's Award for Student Excellence: *(Est. in 1998)*

Ms. Karen Conner, Business Administration, 1998
Mr. Michael Rodriquez, Aviation Administration, 1998
Ms. Eileen Therese Sullivan, Management Technology, 1999
Mr. Jonathan Friedfertig, Management Technology, 2000
Ms. Shirley Mohan, Computer Systems Technology, 2001
Mr. Christopher Weppler, Management Technology, 2001
Ms. Diane Bachor, Technical Communications, 2002
Ms. Maria Orellana, Management Technology, 2002
Mr. Matthew Preston, Professional Pilot, 2002
Ms. Belinda Rodriguez, Computer Programming & Info. Systems, 2002
Ms. Prathibha Mohan, Computer Science, 2003
Mr. Justin Schulz, Aviation Administration, 2003
Ms. Nikiesha White, Applied Mathematics, 2004
Mr. Jonathan Spolidora, Business Administration, 2004
Ms. Sasha Lee Dawes, Business Administration, 2004
Ms. Cecilia Ambros, Visual Communications, 2004
Ms. Stephanie Marinelli, Nursing, 2005
Mr. Shawn Moir, Aviation, 2005
Ms. Elizabeth Reilly, Nursing, 2005
Mr. Patric Santiago, Business Administration, 2005
Mr. Arnim Mondesir, Management Technology, 2006
Ms. Shari Romar, Urban Horticulture and Design, 2006
Mr. Brett Southard, Computer Programming & Info. Systems, 2006
Mr. Michael Tobin, Bioscience, 2006
Ms. Denise Botiglione, Management Technology, 2007
Ms. Robin Dunn, Business Administration, 2007
Ms. Rachele Fischer, Liberal Arts and Sciences, 2007
Ms. April Orthner, Management Technology, 2007
Ms. Janine Segalini, Computer Programming & Info. Systems, 2007
Ms. Delia Sarich, Professional Communications, 2008
Ms. Lauren Fink, Business Management, 2008
Mr. Frank Rampello, Professional Communications, 2008
Ms. Cheryl Williams, Nursing, 2008
Ms. Nicole Andre, Bioscience, 2009
Ms. Kathleen Flanagan, Bioscience, 2009
Mr. Anthony Sbrocco, Business Management, 2009
Mr. Matthew Dorsey, Business Management, 2010
Ms. Elena Lee, Visual Communications, 2010
Ms. Mary O'Neil, Nursing, 2010
Mr. Aristoteli Dorizas, Technology Studies, 2011
Ms. Lauren D'Alesandro, Dental Hygiene, 2011
Mr. Andrew Hesse, Bioscience and Applied Mathematics, 2011
Ms. Jaimie Dorr, Business Management, 2012
Mr. Salvatore Hanusiewicz, CPIS and Applied Mathematics, 2012
Ms. Amy Olenick, Nursing, 2012
Mr. David Olivo, Dental Hygiene, 2012
Ms. Christine Deeks, Dental Hygiene, 2013
Ms. Jessica Micallef, Professional Communications, 2013

Ms. Tara Polla, Nursing, 2013
Ms. Joy Grynko, Applied Psychology, 2014
Ms. Kristine Meyer, Nursing, 2014
Mr. John Scuteri, Computer Programming & Info. Systems, 2014
Ms. Jade Truong, Bioscience, 2014
Ms. Sarina Turbendian, Professional Communications, 2014
Ms. Elizabeth Calvente, Bioscience, 2015
Mr. John M. Campbell, Bioscience, 2015
Ms. Shannon Vollmer, Applied Math, 2015
Ms. Vianna M. Reyes Duran, Business Management, 2015
Ms. Kristen Ranaldo, Dental Hygiene, 2015
Ms. Kristin Bonura, Nursing, 2016
Ms. Kimberly Gleason, Applied Psychology, 2016
Ms. Kinza Nadeem Kasher, Visual Communications, 2016
Ms. Alexa Artemis Toyas, Professional Communications, 2016
Ms. Jessica Ann Daddino, Nursing, 2017
Ms. Kristine Lycke, Applied Psychology, 2017
Mr. Oscar Polanco-Reynoso, Applied Economics, 2017
Mr. Shaquille Saillant, Visual Communications, 2017
Ms. Samantha Stettnisch, Bioscience, 2017
Ms. Carly Vittoria, Nursing, 2017
Mr. Robert Adolfsen, Automotive & Mechanical Eng. Tech., 2018
Mr. Bradley Correia, Nursing, 2018
Ms. Emily McCue, Nursing, 2018
Mr. Daniel Parks, Mechanical Engineering Technology, 2018
Mr. Matthew Schinasi, Applied Psychology, 2018
Mr. Messiah Gaymon, Science, Technology & Society, 2019
Mr. Jamie Jones, Architectural Engineering Technology, 2019
Ms. Lily Moldan, Criminal Justice: Law Enforcement Technology, 2019
Ms. Jennifer Newins, Medical Laboratory Science, 2019
Mr. Luke Rossi, Bioscience, 2019
Mr. Nicholas Ferrigno, Computer Programming & Info. Systems, 2020
Ms. Maria Turbi Henderson, Bioscience, 2020
Mr. David Ramirez, Computer Programming & Info. Systems, 2020
Mr. Garrett Spurlin, Aviation Administration, 2020
Ms. Angelique Roberson, Business Management, 2021
Mr. David Wan, Electrical and Computer Engineering Technology, 2021
Ms. Simran Mohan, Criminal Justice: Law Enforcement Technology, 2021
Ms. Urfa Ajmal, Electrical and Computer Engineering Technology, 2022
Ms. Emily Escobar, Applied Psychology, 2022
Ms. Dilcia Hernandez, Bioscience, 2022
Ms. Sindhu Padaga, Computer Programming & Info. Systems, 2022
Ms. Delmy Santos Vigil, Bioscience, 2022
Mr. Jake Iaccino, Professional Communications, 2023
Ms. Christina Jones, Computer Security & Applied Mathematics, 2023
Ms. Sidra Naru, Computer Programming & Info. Systems, 2023
Ms. Kiana Rodriguez, Applied Psychology, 2023
Mr. Oscar Bonilla, Electrical and Computer Engineering Technology, 2024
Ms. Destini Buchanan, Bioscience, 2024
Ms. Daniela Figueroa, Applied Psychology, 2024
Mr. Marco Iorio, Electrical and Computer Engineering Technology, 2024
Ms. Alexa Gutterson, Business Management, 2025
Ms. Sherin Joseph, Computer Science, 2025
Ms. Julia Seitz, Professional Communications, 2025
Mr. Jairo Orozco, Applied Psychology, 2025
Mr. Vito Postiglione, Visual Communications, 2025
Ms. Jannet Baires, Criminal Justice, 2026
Mr. Bryan Cox, Architecture & Construction Management, 2026
Mr. Raymond Howard, Aviation Administration, 2026
Ms. Natasha Jones, Business Analytics, 2026
Mr. Joseph Rodriguez, Professional Communications, 2026

FACULTY EMERTI

Yelleshpur Dathatri
Distinguished Service Professor

John A. Fiorillo
Distinguished Teaching Professor

Charles Fishman
Distinguished Service Professor

Sheldon Gordon
Distinguished Teaching Professor

Cornelius R. McAdorey
Distinguished Service Professor

Ann R. Shapiro
Distinguished Teaching Professor

John Winn
Distinguished Teaching Professor

Daniel Marrone
Distinguished Teaching Professor

Serdar Z. Elgun
Distinguished Service Professor

Miriam K. Deitsch
Distinguished Teaching Professor

Fred Acee
Charles Adair
Dorothy Allen
Bengt Anderson
Jane G. Annis
William Austin
Charles Badowski
Salvador Barbasso
Gwendolyn Barckley
Albert M. Barker
Susan Barrett-Landau
Paul K. Baumann
Paul Bedell
Victor Bellard
Judith Bird
Robert C. Blank
Angela Blas
Abraham Blinderman
Marilyn Blumenthal
Kenneth Bowers
Dolores Bradley
Theresa Branciforte
Harold Brenner
Gary Brown
Stephen Brozak
Jennifer Bryer
John F. Burkart
Linda Calderone
Patti Cantamessa
Barry John Capella
Maureen Capone
Frank Cavioli
George Caviris
Lucia Cepriano
Helene Cerky
Stuart Chaskes
Frances Cherkis
Horice Clapp
Herbert Cohen
Jerome Cohen
David Conford
Francis X. Corrigan
Howard Crandell
Peggy Rogers Crichton
Philip Cruz
Robert Culver
Norma Curchack
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ADVISORY COMMITTEES

Advisory Committees are recognized by Farmingdale State College as strong partnerships that are integral to program quality and viability. Consisting of local employers and community representatives, the Committees advise the College on the development and revision of academic programs as well as new applications of science and technology, new methods and materials, and trends in employment. These partnerships can help build community support, commitment, and resources for programs while ensuring that programs are up-to-date and responsive to the needs of the Long Island region and beyond.

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Mr. John Faltings	President, G & S Solar Vice President of Development & Construction, G & S Investors
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Mr. Robert Morrisey, RA	Vice President, JRS Architect, PC
Ms. Natalie Niemann, R.A.	Full-time Professor of Construction Technology, Suffolk Community College, Selden, NY
Mr. Paul O'Rourke	Vice President of Operations, EW Howell Co., Inc.
Mr. Ralph Ottaiano, AIA, LEED	Project Coordinator, Jobco Incorporated
Mr. Michael Peck, RA, VP	Architect, GTC CM & Consulting, LLC
Mr. William Recce, RA, LEED AP	Principal, SCC Construction Management Group
Mr. R. Joel Richardson	Associate, Senior Civil Discipline Engineer, H2M Architects + Engineers
Mr. Michael Rohan	Director, Engineering & Infrastructure, Northwell Health
Mr. Michael W. Spinelli, JD, AIA	Principal, Cashin Spinelli Ferretti LLC
Mr. John F. Sullivan	Senior Vice President of Operations, Skanska Civil
Mr. Phillip A. Toth	Lead Estimator, Preconstruction, Skanska USA Civil

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Ms. Shelley LaRose-Arken	Airport Manager, Republic Airport - Farmingdale, NY
Mr. William J. Nugent	Vice President, Flight Safety International
Mr. Mahendra K. Raghubeer	Manager, Safety and Standards Branch and Airport Compliance Program Manager, FAA, Airports Division
Mr. Bob Seidel	President and CEO, JFI JETS

BIOLOGY

Mr. Andreas Grill	Executive Director, Pharmaceutical R&D
Mr. John Haley	Independent Consultant
Dr. Annette Lee	Director of Laboratory of Transitional Genetics, Feinstein Institutes for Medical Research
Mr. Daniel T. Polner	Executive Director, Broad Hollow BioScience Park, Inc.

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Mr. Justin Cusano, CPA, MST	Finance Analyst, Fairfiled Properties
Ms. Rachel Doukas	Founder/CEO Doukas Media
Mr. Steven Eisner, CLF	Managing Director, National Finance Network
Ms. Diane Gariti	Human Resource Manager, D3 LLC
Ms. Evelyn Geller, FSCP, LUTCF, RICP, CDFA, CLTC	Managing Director, Forest Hills Financial Group
Mr. John Liberti	Vice President Security Operations Center, Summit Security Services, Inc.
Mr. Robert N. Marrano	Sr. Director Strategy, Planning & Administration, Canon U.S.A., Inc.
Ms. Madalyn Moeller	Senior Corporate Recruiter, ClearVision Optical
Ms. Kim Poulos	President/Owner/Creative Director, KGI Design Group (Kimberleigh Graphics, Inc)
Mr. Andrew Siciliano	Partner, U.S. Practice Leader- Trade and Customs, KPMG
Ms. Elise Turley	Talent Acquisition Specialist, Enterprise Mobility

CENTER FOR CRIMINAL JUSTICE STUDIES

Mr. Patrick Ryder	Commanding Officer, Asset Forfeiture and Intelligence, Nassau County Police Department

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Mr. John Abruzzo, P.L.S.	Owner, Islip Land Surveying PC
Mr. Kenneth Arnold, P.E.	Commissioner, Nassau County Department of Public Works
Mr. Richard B. Causin, P.E.	Regional Director, NYS Department of Transportation

Ms. Sarah Oral, P.E., LEED AP BD+C	Long Island Coordinator, Clean Energy Communities Program for NYSERDA
Dr. Ozlen Ozkurt	Department Manager, Dewberry Engineers Inc., New York, NY
Mr. Alexander J. Prego, P.E., PTOE	Chief Engineer, Suffolk County Department of Public Works

COMPUTER SECURITY

Mr. Tirumala Rao Chimpiri	Senior Programmmer Analyst, Stony Brook University
Mr. Thomas Dinan	Director of Security Operation Center and Security Technology, Altice USA (Formerly Cablevision)
Mr. Frank Esposito	Ground Operations, JetBlue Airways; Sr. Security Analyst, Altice USA (Formerly Cablevision)
Mr. John Johrden	Executive Director of Operations, Culhane Associates, LLC
Mr. Taj Mahmud	Senior Advisory Consultant, Cyber Risk Services
Mr. Sean Ogonowski	Public Safety Officer, Suffolk Community College
Mr. Peter J. Theobald	Senior Site Reliability Engineer, Compute Technology Group at Akamai
Mr. Almon Tse	Chief Information Security Officer, Saks Fifth Avenue
Mr. Eric P. Vandenburg	Director of Training & Research, Culhane Associates, LLC

COMPUTER SYSTEMS

Ms. Peta-Gay Clarke	Google.org Global Community Program Lead, Google, Inc
Ms. Nancy A. Corrado	Director, Business Development and Customer Success, Canon USA, Inc
Mr. Jeffrey Herb	Manager, Information Technology Services 1-UI Support Team and eChannels Team (Tax and Finance), New York State Office of Information Technology
Ms. Cindy Hoskey	Customer Enablement Director/ Managing Consultant. Praesto Consulting
Ms. Louisa Petsitis	IS Security Analyst II, 1199SEIU Benefit and Pension Funds

DENTAL HYGIENE

Dr. Farah Alam, DDS, FSCD	Director, Special Care Dentistry-Department of Dentistry, Montefiore Medical Center
Ms. Chelsea Borsack, MS, RDH	Dental Hygienist, Greater Long Island Dental and Weinberger Orthodontics
Dr. Steven R. Feigelson, DDS, PC	CEO and President, Steven R. Feigelson DDS, 3PC; Associate Clinical Professor, Stony Brook University
Ms. Eileen Feltz, RDH, BS, MHA	Director of Clinical Operations, SUNY Stonybrook School of Dental Medicine
Mr. Justin Hayes	Operations Director, Marotta Dental Studio
Ms. Donna Hickey	Licensed Registered Dental Hygienist
Dr. Kenneth Johannesen, DDS	Chief, Dental Service, Northport VA Medical Center
Dr. Allan Kucine	Clinical Asst. Professor, School of Dental Medicine, Stony Brook University
Ms. Jessica Leggio	Dental Hygienist, NYS Office of Mental Health at Pilgrim Psychiatric Center
Ms. Gabrielle Linzer	Director, Strategy and Implementation, Henry Schein Products, Henry Schein Inc.
Dr. Junaid Mundiya	Private Practice, Suffolk Oral Surgery Associates, LLC; Associate Clinical Professor, SUNY Stony Brook School of Dentistry; Associate Clinical Attending, St. Barnabas Hospital
Dr. Eugene Porcelli, DDS	Executive Director, Nassau County Dental Society; Dental Expert for Law Firm of Kerley, Walsh, Matera & Cinquemani, P.C.; Dental Expert for the Law Firm of Tromello, McDonnell & Kehoe; Dental Expert for the Law Office of Henry Schwartz
Dr. Joan M. Waldron, DDS, MPA	Director, Provider Relations and Outreach, Healthplex, Inc.

ECONOMICS

Ms. Marian Chen	Vice President, New York Community Bank
Mr. Tommy W. Leung	Audit Senior Manager, KPMG LLP
Mr. Craig Levy	Vice President Senior Business Relationship Manager, HSBC Bank USA NA
Ms. Shital Patel	Labor Market Analyst, Principal Economist, NYS Dept of Labor

ELECTRICAL / COMPUTER ENGINEERING TECHNOLOGY

Mr. Peter Buitenkant	Consultant
Mr. Joseph Colucci	Sr. Engineering Project Manager, Telephonics Corp
Ms. Marietta Costa	Software Engineering Manager, BAE Systems
Mr. James Del Rossi	Founder and CTO, ADR Advisors, Inc.
Mr. Thomas Hayes	Senior Project Engineer, Brookhaven National Lab
Mr. Gary R. Johnson	Section Manager, Conformity Assessment Services, US East, Underwriters Laboratories

Mr. Se Yong Park	Founder & CEO, Intelibs, Inc.
Mr. Ira Soller, PE	Director of Biomedical Engineering, SUNY Health Science Center (retired)

HISTORY, POLITICS, AND GEOGRAPHY

Dr. Jochen Albrecht	Professor of Computational and Theoretical Geography, Hunter College
Mr. Robert Hubbs	GIS Specialist, Town of Smithtown
Ms. Janet L. Kaczmarek	Earth Science Teacher, Sayville High School; Science Teacher Stony Brook Ace Program, Sayville High School
Mr. Robert Mozer	Science Teacher, William Floyd Middle School
Ms. Kara O'Neil	GIS Director, L.K. Mclean Associates P.C

INDUSTRIAL TECHNOLOGY - FACILITY MANAGEMENT TECHNOLOGY

Mr. Daniel Forino, PE, MBA, CCP, LEED AP, WELL AP, FitWel	Integrated Facilities Management-Division Manager, Brookhaven National Laboratory
Mr. John V. Lucchi, PE	Senior Stationary Engineer (Chief Engineer), NYC Dept of Citywide Administrative Services (DCAS)
Mr. Alex Pamboris	Chief Cost Engineer, Hunter Pacific Group
Mr. Howard S. Pobliner, CFM, FMP	Manager, Office Services, American Society of Mechanical Engineers
Mr. William Roblin	Owner/President/Property Owner, Baldwin Machine Works, Inc. & Baldwin Machine Properties LLC
Mr. Edwin Rosero	Lead Process Engineer, Hitemco
Mr. Mark Slavin, LEED AP	Operations Manager of Engineering NYU Langone Health
Mr. Edward J. Sottile	Director of Manufacturing Engineering/Operational Excellence Coordinator, OERLIKON METCO US Inc

MATHEMATICS

Dr. Petar M. Djuric	Chair, Electrical and Computer Engineering Department, Stony Brook University
Mr. Stanley Kalemaris, Jr.	MS, Aeronautical Engineering
Dr. Lev Neymotin	Project Manager, Brookhaven National Laboratory
Dr. Fabio Peixoto	Vice President, Royal Bank of Canada Capital Markets

MECHANICAL ENGINEERING TECHNOLOGY

Mr. Marc Anderes	VPO and Co-Founder, Maloya Corporation
Mr. Mark Klein, PE	Capital Program Manager/ Engineer, NYCDEP Bureau of Engineering, Design and Construction
Mr. Robert Kufner	Vice Chairman, Emerging Technology Committee; President/ CEO, Designatronics Inc.
Mr. Matthew May	Chief Environmental and Dynamics Engineer, Dayton T. Brown Inc.
Mr. Jeff Richlin	Tool Builder, Sales, Support, Richlin/Omniturn - Richlin Machinery
Mr. Edwin Rosero	Lead Process Engineer, Hitemco
Dr. Raj Shah	Director, Koehler Instrument Company
Mr. George Tavitian	VP Project and Development Services, Jones Lang LaSalle
Mr. William Velkoff	Design Manager, Curtiss Wright-Target Rock
Mr. Tom Zanatta	Development Engineer, Zebra Technologies

MEDICAL LABORATORY SCIENCE

Ms. Laurie Birnbaum	Lab Administrator, Northwell Health System
Ms. Adrienne Boyd, MT, CT (ASCP)	Clinical Laboratory Rotation Coordinator/Cytology Supervisor-NYU Langone Hospitals
Mr. Peter Colaninno	Laboratory Manager, Sunrise Medical Laboratories
Mr. Robert Gannon, BSMT (ASCP)	Laboratory Educator, Good Samaritan Hospital Medical Center
Ms. Susan Henneborn	Program Manager Clinical Laboratory Education, Northwell Health Systems Laboratories
Mr. Jason Lee	Senior Clinical Laboratory Educator, Northwell Health Laboratories
Ms. Donna Manchisi	Clinical Education Coordinator, North Shore/LIJ Health System Laboratories
Ms. Geraldine Shikora	Quality Team Laboratory Educator/ Safety Officer, Long Island Jewish Medical Center
Ms. Angela Tomei-Robinson	Clinical Coordinator, Winthrop University Hospital
Ms. Jennifer M. Welsch	Manager, Microbiology and Molecular Biology, Sunrise Medical Laboratories

NURSING

Ms. Kathleen Casler, MS, RN, NPD-BC	Senior Director, Clinical Professional Development, Northwell Health-Institute for Nursing
Ms. Melinda Anne Constantine, MSN, RN, CMSRN, ONC	Director of Professional Development, St. Charles Hospital, Long Island, NY & Maimonides Midwood Community Hospital, Brooklyn, NY

Ms. Theresa Anne Dillman, DNP, MSN, MHA, RN, NE-BC	Associate Executive Director/ Chief Nursing Officer, Plainview and Syosset Hospitals, Glen Cove Hospital-Northwell Health
Ms. Patricia Marie Farrell, MSN, MBA, RN-BC, NE-BC	Vice President Operations / Integrated Operations at Northwell Health
Dr. Ingrid Catherine Herrera-Capoziello, DNP, NPD-BC, NE-C	Adjunct Professor, Adelphi University; AVP, Professional Development and Nursing Excellence, Hospital for Special Surgery
Ms. Katherine Lewin, MS, NPD-BC, CCRN-K	In-Service Educator, Stony Brook Medicine / Clinical Professional Development Educator, Mather Hospital Northwell Health
Ms. Sheri Lubniewski, MSN, BS, RN, MEDSURG-BC, NPD-BC	Director, Nursing Clinical Professional development & Assistant Director of Nursing, South Shore University Hospital
Dr. Eileen Magri, PhD, RN, NEA	Senior Director of Nursing NYU Langone
Ms. Robin Moulder, RN, MBA, CPHQ	Manager, Division of Quality & Safety, Memorial Sloan Kettering Cancer Center
The Honorable Maureen O'Connell, RN	Nassau County Clerk
Ms. Maureen G. Powers, MSN, RN, CCRN-K	Nurse Educator Onboarding Newly hired RN's/ Clinical Placement Coordinator/ Critical Care Educator, St. Francis Hospital
Ms. Laraine Rasmussen, MBA, BSN, RN, CRRN, NE-BC	Director, Nursing Education, Professional Development & Research, Good Samaritan University Hospital
Dr. Ceclia M. Wells, PhD, RN	Clinical Program Manager, Critical Care, Mount Sinai Hospital; Director, Patient Care Services & Nursing Professional Development, South Oaks Hospital

PROFESSIONAL COMMUNICATIONS

Mr. Victor Ordoñez	Producer, ABC News, Specialized Units

PSYCHOLOGY

Ms. Stephanie Cusumano	Manager, Organizational Development - FourLeaf Federal Credit Union, Bethpage, NY
Ms. Jeri Gunod Mendelsohn, LCSW	Consultant, Jeri Mendelsohn LCSW Consulting Services PLLC
Dr. Lisa Paler	Associate Professor, Department of Psychology The College of New Rochelle
Dr. Brian J. Ruggeberg	Partner, Aon Hewitt
Dr. Elizabeth R. Salib, PHD	Partner, RHR International, New York, NY

SCIENCE, TECHNOLOGY, & SOCIETY

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Ms. Rebecca Sanin, JD, MA	President/CEO, Health and Welfare Council of Long Island
Dr. Wolf Schafer	Associate Dean IAPS and Professor, Stony Brook University

SPORT MANAGEMENT

Mr. George E. Breres	President/Co-Founder, Dynamic Sports Management
Dr. Robert Dranoff, EdD	Commissioner, East Coast Conference NCAA Division II
Mr. George Gorman, Jr.	Regional Director, Long Island State Parks, Recreation and Historic Preservation
Mr. Joel Lewin	Vice President, Gray Sports & Entertainment (Raycom Sports)
Ms. Rebecca Li	Community Manager, Social Media Analyst, United States Tennis Association
Ms. Elisa Padilla	Senior Vice President, Creative Strategy and Partnership Marketing, ROC Nation
Mr. Michael Pfaff	President/Chief Business Officer, Long Island Ducks Baseball NCAA Division II
Ms. Michelle Rachek	Director, Ticket Services, New York Mets
Mr. Adam Rubin	Director of Public Relations, Commack School District; Adjunct Professor Department of Communications, Hofstra University; Owner of Birmingham Bulls
Mr. Shawn Sam	President & Investor, Nexus Sports Ventures Inc.

TECHNOLOGY MANAGEMENT MS

Mr. Howard L. Rowland	President/COO EW Howell Construction Group
Mr. Raymond Tillman, P.E.	Independent advisor for USDOT Build America Bureau/TIFIA consultants

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Ms. Linda Calamia	Commercial Sales, Hick's Nursery
Mr. Stephen D'Amato	Professional Landscape Designer, D'Amato Landscaping, Inc.
Mr. Thomas DiDominica	Co-Owner, Dees' Nursery & Florist, Inc.
Ms. Michelle Doran	Plant Quality Specialist, Goldberg and Rodler
Ms. Bonnie Klein	Director of Horticulture, Town of North Hempstead
Mr. John Meyer	Manager, Atlantic Nursery
Mr. Anthony Pignataro	Business Development Manager, Central Turf & Irrigation Supply
Mr. George Starkie	President, Starkie Brothers Garden Center, Inc.

Ms. Jennifer Ulsheimer	Town of Babylon, Horticulturist
Ms. Adriann Valiquette	Landscape Designer, Fuschetto & Sons, Inc.

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Mr. Anthony L. Carrozzo	Senior Product Designer, MNTN
Mr. Rick Chiorando	Chief Creative Officer, Austin & Williams
Mr. Steve Greco	Vice President, Creative Services Don Jagoda Associates
Mr. Shaquille Jivraj	Interactive Designer & FED Developer, Millennium Communications
Mr. Stuart Karten	President, Karten Design
Mr. Patrick Macri	Chief Executive Office, Millennium Communications, Inc.
Mr. Mark Menghi	Senior VP/Guitar Product Owner, IK Multimedia
Ms. Kaitlyn Miller	VP, Associate Creative Director, H4B Chelsea

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NYS College of Ceramics at Alfred University
Binghamton University
University at Buffalo
NYS College of Agriculture & Life Sciences at Cornell University
NYS College of Human Ecology at Cornell University
NYS School of Industrial & Labor Relations at Cornell University
NYS College of Veterinary Medicine at Cornell University
Downstate Health Sciences University
College of Environmental Science and Forestry (ESF)
College of Optometry
Stony Brook University
SUNY Polytechnic Institute
Upstate Medical University

UNIVERSITY COLLEGES

SUNY Brockport
Buffalo State University
SUNY Cortland
Empire State University
SUNY Fredonia
SUNY Geneseo
SUNY New Paltz
SUNY Old Westbury
SUNY Oneonta
SUNY Oswego
SUNY Plattsburgh
SUNY Potsdam
Purchase College

TECHNOLOGY COLLEGES

Alfred State College
SUNY Canton
SUNY Cobleskill
SUNY Delhi
Farmingdale State College
Maritime College
SUNY Morrisville

COMMUNITY COLLEGES

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SUNY Broome Community College
Cayuga Community College
Clinton Community College
Columbia-Greene Community College
Corning Community College
Dutchess Community College
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Fashion Institute of Technology (FIT)
Finger Lakes Community College
Fulton-Montgomery Community College
Genesee Community College
Herkimer County Community College
Hudson Valley Community College
Jamestown Community College
Jefferson Community College
Mohawk Valley Community College
Monroe Community College
Nassau Community College
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Rockland Community College
SUNY Schenectady County Community College
Suffolk County Community College
Sullivan County Community College
Tompkins Cortland Community College
Ulster County Community College
Westchester Community College

TELEPHONE NUMBERS

Topic	Office	Location	Phone Number
Academic Advising	Student Success & Advising Center	Greenley Hall, Lower Level	934-420-5160
Academic Support / Tutoring Services	Center for Academic Success & Tutoring (CAST)	Greenley Hall, 302	934-420-2066
Admission Requirements	Admissions	Laffin Hall, 2nd Floor	934-420-2200
Alumni	Alumni Engagement	Alumni Smart Energy House	934-420-2369
Athletics	Athletics	Nold Athletic Complex	934-420-2482
Billing Information	Student Accounts	Laffin Hall, 226	934-420-2560
Books / Campus Apparel / Supplies	Bookstore	Campus Center	934-249-3048
Career Counseling / Applied Learning / Internships	Nexus Center for Applied Learning & Career Development	Greenley Hall, 1st Floor	934-420-2296
Child Care	Children's Center	Children's Center	934-420-2125
Course Registration / DegreeWorks / Transcripts	Registrar	Laffin Hall, 225	934-420-2776
Dining Services	Aramark	Campus Center	631-293-2778
Disability Services	Disability Services Center (DSC)	Whitman Hall, 186D	934-420-5174
Emergencies	University Police	University Police Headquarters	934-420-2111
Farmingdale College Foundation	College Foundation	Horton Hall, 120	934-420-2142
Financial Aid	Financial Aid	Laffin Hall, 324	934-420-2578
Health & Wellness	Health and Wellness Center	Health and Wellness Center	934-420-2009
ID Cards	University Police	University Police Headquarters	934-420-2561
International Students	International Education & Programs	Laffin Hall, 320A	934-420-2479
IT Help Desk	Information Technology	Whitman Hall, 2nd Floor	934-420-2754
Library	Library	Greenley Library	934-420-2011
Lost & Found	University Police	University Police Headquarters	934-420-2112
Mental Health Services	Campus Mental Health Services	Dewey Hall, 1st Floor	934-420-2006
Parking & Traffic	University Police	University Police Headquarters	934-420-2561
Placement Testing	Center for Academic Success & Tutoring (CAST)	Greenley Hall, 302	934-420-2066
Pre-Health Professions Advisement	Pre-Health Professions Advisement (PHPA)	Hale Hall, 114	934-420-2530
Professional & Continuing Education	Office of Professional and Continuing Education (PaCE)	Greenley Hall, Lower Level	934-420-5404
Residence Life	Residence Life	Dewey Hall, 118	934-420-2010
Scholarships	Institutional Advancement	Alumni Smart Energy House	934-420-2144
Student Clubs / Activities / Events	Student Activities	Quintyne Hall, 111	934-420-2103
Study Abroad	Study Abroad	Greenley Hall, Lower Level	934-420-5479
Writing Center	Writing Center	Greenley Hall, 318	934-420-2082
Veterans Services	Veterans Services	Quintyne Hall, 009	934-420-5168

For additional information, please visit: https://www.farmingdale.edu/

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Farmingdale State College

State University of New York

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