NEXUS CENTER
FOR APPLIED LEARNING + CAREER DEVELOPMENT

Satisfying the Applied Learning Graduation Requirement

2025-2026

Updated as of 8/18/2025

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Introduction

This resource is meant to facilitate researching the Applied Learning opportunities offered at FSC. This resource should not be relied on exclusively and information should be verified, including directly with specific academic programs.

The information in this guide is separated by program of study, as each program offers different opportunities to satisfy the Applied Learning Graduation Requirement. The approved courses/opportunities listed are updated as of the 2025-2026 academic year.

If you have further questions about what constitutes an Applied Learning activity or the Applied Learning Graduation Requirement, contact the Applied Learning Coordinator, Inesa Mott (motti@farmingdale.edu) BEFORE participating for credit.

Applied Learning Graduation Requirement*

All baccalaureate program students entering FSC in catalog year 2019-2020 and thereafter will be required to fulfill the Applied Learning Graduation Requirement. This means that they will be expected to earn a passing grade in a course/courses satisfying the requirement OR successfully complete FSC pre-approved co-curricular activities that satisfy the requirement.

Ten hours of approved Applied Learning activities is the minimum for meeting the Applied Learning Graduation Requirement.

Ways to Satisfy the Applied Learning Graduation Requirement

The graduation requirement can be satisfied in any of the following ways:

1. Earn a passing grade in a (full) Applied Learning course**
2. Earn passing grades in *at least two* Applied Learning Enhanced courses**
3. Successfully complete a Nexus Center Experience (including Nexus Center-sponsored Service Days and Social Science Institute (SSI) AL activities) constituting a minimum of ten hours***
4. Complete at least 10 hours of approved Co-curricular Activities***
5. Complete a combination of an Applied Learning Enhanced course and at least 5 hours of approved Co-curricular Activities or Nexus Center Experience***
6. Participate in a Study Abroad/Study Away course.

* Adapted from *Applied Learning: A Guide for Planning, Implementation, and Assessment*, posted on the Nexus Center website. For definitions and the complete policy, see the *Guide.*

****NOTE: Students should confirm the Applied Learning designation of specific classes. The course must bear Applied Learning designation to count towards the graduation requirement. Courses approved prior to 2020 are approved by specific instructors and not all sections of the course may be Applied Learning approved. As of 2020, courses will be approved for all sections. These courses for which all sections are AL approved are noted below and have a note "All sections of the course are Applied Learning approved."**

To view all current approved Applied Learning courses and their prerequisites, go to page 19 of this resource or see the Applied Learning Courses on the FSC Course Listings online: https://www.farmingdale.edu/registrar/schedule.shtml

Finding Approved Applied Learning Co-curricular Activities

***Approved Nexus Center Experiences and Co-curricular Activities will be listed in the AL Co-curricular Activities unit on Axiom, a database for Applied Learning Opportunities. To log-in to Axiom, visit: https://www.farmingdale.edu/axiom-login

Finding Approved Applied Learning Courses

It is important to double-check your desired course on FSC course listings before enrolling in that course.

While Applied Learning courses denoted as "Full" satisfy the Applied Learning Graduation Requirement completely, courses denoted as "Enhanced" fulfill the graduation requirement partially (at least 5 hours but not the full 10 hours).

You can determine a course's designation by checking your course listing online.
See course listings and choose the desired semester here:
https://www.farmingdale.edu/course-offerings/index.shtml

Each course will include an Applied Learning badge designation, in addition to a course code:

i.e.  **AECW**

Any course code starting in "**AE**" is an Enhanced Course (partial credit).
Any other course code starting in "AC" is a full course (full credit).

See the following course codes to determine if your intended course is Enhanced or Full:

Applied Learning Category	Full/Enhanced
Civic Engagement	ACCE – Full AECE – Enhanced
Clinical Placement	ACCP – Full
Community Service	ACCS – Full AECS – Enhanced
COIL	COCO – Full
Creative Works	ACCW – Full AECW – Enhanced
Entrepreneurship	ACEN – Full AEEN – Enhanced
Field Study	ACFS – Full AEFS – Enhanced
Graduate Research	ACGR – Full

Internship	ACIN – Full
Practicum	ACPR – Full AEPR – Enhanced
Service Learning	ACSL – Full AESL – Enhanced
Study Abroad/Away - Travel-Exchange	ACTE – Full
Undergraduate Research	ACUR - Full

Degree Programs with ***Required*** Applied Learning Courses

Students in these degree programs may satisfy the Applied Learning requirement by participating in an **approved section** of a required course – i.e., the course must be designated as Applied Learning in the course listings.

**Note: If a student enrolls in a section of the course that is not Applied Learning approved, the student must satisfy the requirement through other means.

- Aeronautical Science - Professional Pilot, B.S.
- Applied Economics, B.S.
- Applied Gerontology, B.S.
- Applied Psychology, B.S.
- Architectural Engineering Technology, B.S.
- Aviation Administration, B.S.
- Bioscience, B.S.
- Business Analytics, B.S
- Computer Engineering Technology, B.S.
- Computer Programming & Information Systems, B.S.
- Computer Science, B.S.
- Computer Security Technology, B.S.
- Construction Management Engineering Technology, B.S.
- Criminal Justice: Law Enforcement Technology, B.S.
- Criminal Justice: Police, Courts and Corrections, B.S.
- Dental Hygiene, B.S.
- Electrical Engineering Technology, B.S.
- Global Business Management, B.S.
- Health Promotion and Wellness, B.S.
- Horticultural Technology Management, B.T.
- Industrial Technology - Automotive Management Technology, B.S
- Industrial Technology - Facility Management Technology, B.S.
- Interaction Design, B.T.

- Manufacturing Engineering Technology, B.S.
- Mechanical Engineering Technology, B.S.
- Medical Laboratory Science, B.S.
- Nursing, B.S., RN to BS
- Nutrition Science, B.S
- Professional Communications, B.S.
- Science, Technology & Society, B.S.
- Security Systems Technology, B.S.
- Software Technology, B.S.
- Sport Management, B.S.
- Visual Communications: Art & Graphic Design, B.T.

Degree Programs with ***Elective*** Applied Learning Courses

Students in these degree programs must take one of the degree-offered elective Applied Learning courses/for-credit internships **OR** satisfy the requirement through other means.

**Note that certain AL courses are approved by instructor only. This means that not all sections of a course may be Applied Learning approved.

- Applied Mathematics, B.S.
- Business Management, B.S.

Applied Learning Courses Required by Major

Aeronautical Science - Professional Pilot, B.S.

Students in the Aeronautical Science degree program may satisfy the Applied Learning (AL) requirement by taking an approved section of any of the following required courses:

- AVN 105 - Private Pilot Flight to Solo - **All sections of the course are Applied Learning approved**
- AVN 106 - Private Pilot Flight to Certificate - **All sections of the course are Applied Learning approved**
- AVN 209 - Instrument Pilot Flight - **All sections of the course are Applied Learning approved**
- AVN 212 - Commercial Pilot Flight - **All sections of the course are Applied Learning approved**

Applied Economics, B.S.

Students in the Applied Economics degree program may satisfy the Applied Learning requirement by taking any of the following required course:

- ECO 380 – Econometrics - **All sections of the course are Applied Learning approved**
- ECO 491 – Applied Economic Analysis – **All sections of the course are Applied Learning approved**

Applied Gerontology, B.S.

Students in the Applied Gerontology degree program may satisfy the Applied Learning requirement by taking any of the following required approved courses:

- GRO 460 Internship in Gerontology- **All sections of the course are Applied Learning approved *OR***
- HPW 450 – Health & Wellness Internship - **All sections of the course are Applied Learning approved**

Applied Mathematics, B.S.

Students in the Applied Mathematics program may satisfy the Applied Learning requirement by taking the following required course:

- MTH 326 – Mathematical Modeling in Applied Sciences - **All sections of the course are Applied Learning approved**

Applied Psychology, B.S.

Students in the Applied Psychology program may satisfy the Applied Learning requirement by taking any of the following required courses:

- PSY 325 - Principles of Survey Research – Elective Course - **All sections of the course are Applied Learning approved**
- PSY 410 – Individual and Group Counseling – (Enhanced Course) – Elective Course - **All sections of the course are Applied Learning approved**
- PSY 414 - Applied Personnel Psychology - **All sections of the course are Applied Learning approved**
- PSY 442 - Applied Psychology Senior Project: Professional Development - **All sections of the course are Applied Learning approved**
- PSY 443 - Applied Psychology Senior Project II: Career Planning - **All sections of the course are Applied Learning approved**

Architectural Engineering Technology, B.S.

Students in the Architectural Engineering Technology degree program may satisfy the Applied Learning requirement by taking any of the following required courses:

- ARC 310 - Construction Design - **All sections of the course are Applied Learning approved**
- ARC 364 - Site Design and Construction - **All sections of the course are Applied Learning approved**
- ARC 376 - Architectural Design III - **All sections of the course are Applied Learning approved**
- ARC 476 - Architectural Design IV - **All sections of the course are Applied Learning approved**
- ARC 486 – Architectural Design V - **All sections of the course are Applied Learning approved**

Aviation Administration, B.S.

Students in the Aviation Administration degree program may satisfy the Applied Learning requirement by taking the following required approved course for the major:

- AVN 350 – Air Traffic Management - **All sections of the course are Applied Learning approved**

Bioscience, B.S.

Students in the Bioscience degree program may satisfy the Applied Learning requirement taking the following required approved course for the major:

- BIO 441L – Molecular Biology Lab - **All sections of the course are Applied Learning approved**

Business Analytics, B.S

Students in the Business Analytics degree program may satisfy the Applied Learning requirement by taking the following required approved course for the major:

- BUS 448 – Business Analytics Project - **All sections of the course are Applied Learning approved**

Civil Engineering Technology, B.S.

Students in the Civil Engineering Technology degree program may satisfy the Applied Learning requirement by taking the following required approved course for the major:

- CIV 496 – Capstone Project - **All sections of the course are Applied Learning approved**

Computer Engineering Technology, B.S.

Students in the Computer Engineering Technology degree program may satisfy the Applied Learning requirement by taking an approved section of **EET 452W - Design Project**, a required course for the major.

Computer Programming & Information Systems, B.S.

Students in the Computer Programming & Information Systems degree program may satisfy the Applied Learning requirement by taking a required approved course:

- BCS 430W – Senior Project - **All sections of the course are Applied Learning approved**

Computer Science, B.S.

Students in the Computer Science degree program may satisfy the Applied Learning requirement by taking a required approved course:

- CSC 490 – Senior Project - **All sections of the course are Applied Learning approved**

Computer Security Technology, B.S.

Students in the Computer Security Technology degree program may satisfy the Applied Learning requirement by taking a required approved course:

- CPS 405W – Senior Project - **All sections of the course are Applied Learning approved**

Construction Management Engineering Technology, B.S.

Students in the Construction Management Engineering Technology degree program may satisfy the Applied Learning requirement by taking any of the following required courses:

- ARC 310 - Construction Design - **All sections of the course are Applied Learning approved**
- ARC 364 - Site Design and Construction - **All sections of the course are Applied Learning approved**
- CON 496 - Capstone Project - **All sections of the course are Applied Learning approved**

Criminal Justice, Law Enforcement Technology, B.S.

Students in the Criminal Justice: Law Enforcement Technology degree program may satisfy the Applied Learning requirement by taking any of the following required courses:

- CRJ 201 – Criminalistics – **All sections of the course are Applied Learning approved**
- CRJ 316 – Victimology (Enhanced Course) – Elective Course - **All sections of the course are Applied Learning approved**
- CRJ 410W – Senior Project – Elective Course - **All sections of the course are Applied Learning approved**

Criminal Justice, Police, Courts and Corrections, B.S.

Students in the Criminal Justice: Law Enforcement Technology degree program may satisfy the Applied Learning requirement by taking any of the following required courses:

- CRJ 201 – Criminalistics - **All sections of the course are Applied Learning approved**
- CRJ 460W Senior Project (Capstone) - **All sections of the course are Applied Learning approved**

Dental Hygiene, B.S.

Students in the Dental Hygiene degree program may satisfy the Applied Learning requirement by taking any of the following required courses:

- DEN 222 - Community Oral Health II (Enhanced course) **All sections of the course are Applied Learning approved**
- DEN 225 - Clinical Dental Hygiene II - **All sections of the course are Applied Learning approved**
- DEN 235 - Clinical Dental Hygiene III - **All sections of the course are Applied Learning approved**

- DEN 245 - Clinical Dental Hygiene IV - **All sections of the course are Applied Learning approved**
- DEN 322 - Dental Public Health Planning - **All sections of the course are Applied Learning approved**
- DEN 335 – Essentials of Clinical Practice I - **All sections of the course are Applied Learning approved**
- DEN 345 – Essentials of Clinical Practice II - **All sections of the course are Applied Learning approved**
- DEN 409 - Dental Hygiene Practicum - **All sections of the course are Applied Learning approved**
- DEN 435 – Advanced Dental Hygiene Practice I - **All sections of the course are Applied Learning approved**
- DEN 445 – Advanced Dental Hygiene Practice II **- All sections of the course are Applied Learning approved**

Electrical Engineering Technology, B.S.

Students in the Electrical Engineering Technology degree program may satisfy the Applied Learning requirement by taking the following required approved course for the major:

- EET 452W - Design Project - **All sections of the course are Applied Learning approved**

Global Business Management, B.S.

Students in the Global Business Management degree program may satisfy the Applied Learning requirement by taking the following approved course:

- BUS 494 – Seminar in Global and International Business, a required course for the major - **All sections of the course are Applied Learning approved**

Health Promotion and Wellness, B.S.

Students in the Health Promotion and Wellness degree program may satisfy the Applied Learning requirement by taking the following required approved courses:

- HPW 400 - Community Health – **All sections of the course are Applied Learning approved**
- HPW 450 – Health & Wellness Internship - **All sections of the course are Applied Learning approved**

Horticultural Technology Management, B.T.

Students in the Horticultural Technology Management degree program may satisfy the Applied Learning requirement by taking any of the following required courses:

- HOR 474 - Design Capstone Project - **All sections of the course are Applied Learning approved**
- HOR 475 - Horticulture Practicum - **All sections of the course are Applied Learning approved**

Industrial Technology - Automotive Management Technology, B.S

Students in the Industrial Technology - Facility Management Technology degree program may satisfy the Applied Learning requirement by taking the following required approved course for the major:

- AET 410W – Senior Project - - **All sections of the course are Applied Learning approved**

Industrial Technology - Facility Management Technology, B.S.

Students in the Industrial Technology - Facility Management Technology degree program may satisfy the Applied Learning requirement by taking the following required approved course for the major:

- IND 406W - Energy Management - **All sections of the course are Applied Learning approved**

Interaction Design, B.T.

Students in the Interaction Design program may satisfy the Applied Learning requirement by taking any of the following required courses:

- IXD 330 - Design for Social Change - **All sections of the course are Applied Learning approved**
- VIS 416W - Senior Project I - **All sections of the course are Applied Learning approved**
- VIS 426W - Senior Project II- **All sections of the course are Applied Learning approved**

Manufacturing Engineering Technology, B.S.

Students in the Manufacturing Engineering degree program may satisfy the Applied Learning requirement by taking the following required approved course for the major:

- MET 410W - Senior Project - **All sections of the course are Applied Learning approved**

Mechanical Engineering Technology, B.S.

Students in the Mechanical Engineering degree program may satisfy the Applied Learning requirement by taking by taking the following required approved course for the major:

- MET 410W - Senior Project - **All sections of the course are Applied Learning approved**

Medical Laboratory Science, B.S.

Students in the Medical Laboratory Science degree program may satisfy the Applied Learning requirement by taking an approved section of any of the following required courses:

- MLS 236 - Histological Techniques - **All sections of the course are Applied Learning approved**
- MLS 281 - Practicum in Immunohematology
- MLS 282 - Practicum in Clinical Chemistry and Serology
- MLS 283 - Practicum in Hematology and Urinalysis
- MLS 284 - Practicum in Clinical Microbiology
- MLS 481 - Advanced Practicum in Immunohematology - **All sections of the course are Applied Learning approved**
- MLS 482 - Advanced Practicum in Clinical Chemistry and Hematology - **All sections of the course are Applied Learning approved**
- MLS 483 - Practicum in Molecular Pathology - **All sections of the course are Applied Learning approved**
- MLS 484 - Advanced Practicum in Clinical Microbiology - **All sections of the course are Applied Learning approved**
- MLS 491 - Immunohematology Practicum - **All sections of the course are Applied Learning approved**
- MLS 492 - Clinical Chemistry & Serology Practicum - **All sections of the course are Applied Learning approved**
- MLS 493 - Hematology & Urinalysis Practicum - **All sections of the course are Applied Learning approved**
- MLS 494 - Microbiology Practicum - **All sections of the course are Applied Learning approved**

Nutrition Science, B.S.

Students in the Nutrition Science program may satisfy the Applied Learning requirement by taking the following required approved course:

- NTR 420 - Community Nutrition - **All sections of the course are Applied Learning approved**

Nursing, B.S.

Students in the Nursing program may satisfy the Applied Learning requirement by taking any of the following required courses:

- NUR 114T - Clinical and Theoretical Foundations of Baccalaureate Nursing Practice - **All sections of the course are Applied Learning approved**
- NUR 217T - Care of Individuals Experiencing Acute Health Challenges - **All sections of the course are Applied Learning approved**
- NUR 301T - Caring for Populations in the Community Setting - **All sections of the course are Applied Learning approved**
- NUR 307T - Nursing Care of Children and the Child Bearing Family - **All sections of the course are Applied Learning approved**
- NUR 308T - Care of Individual Chronic Health - **All sections of the course are Applied Learning approved**
- NUR 402T – Community and Mental Health Nursing - **All sections of the course are Applied Learning approved**
- NUR 405T - Nursing Practicum: Special Topics **- All sections of the course are Applied Learning approved**
- NUR 406T - Senior Leadership Practicum - **All sections of the course are Applied Learning approved**

Professional Communications, B.S.

Students in the Professional Communications degree program may satisfy the Applied Learning requirement by taking any of the following required approved courses:

- PCM 450 Professional Communications Internship I - **All sections of the course are Applied Learning approved *OR***
- PCM 455 Senior Project in Professional Communication **- All sections of the course are Applied Learning approved**

Science, Technology & Society, B.S.

Students in the STS program may satisfy the Applied Learning requirement by taking an approved section of any of the following required approved courses:

- STS 401W - Internship in Science, Technology, & Society - Writing Intensive - **All sections of the course are Applied Learning approved**
- STS 400W - Senior Seminar in Science, Technology, & Society - Writing Intensive - **All sections of the course are Applied Learning approved**

Security Systems Technology

Students in the Security Systems degree program may satisfy the Applied Learning requirement by taking the following required approved course:

- SST 410W – Senior Project - **All sections of the course are Applied Learning approved**

Software Technology, B.S.

Students in the Software Technology degree program may satisfy the Applied Learning requirement by taking the following required approved course:

- SET 410W – Senior Project - **All sections of the course are Applied Learning approved**

Sport Management, B.S.

Students in the Sport Management degree program may satisfy the Applied Learning requirement by taking any of the following required courses:

- SMT 370 – Research in Sport Management - **All sections of the course are Applied Learning approved**
- SMT 440 - Sport Management Internship – Elective Course - **All sections of the course are Applied Learning approved**

Visual Communications: Art & Graphic Design, B.T.

Students in the Visual Communications: Art & Graphic Design program may satisfy the Applied Learning requirement by taking any of the following required courses:

- VIS 416W - Senior Project I - **All sections of the course are Applied Learning approved**
- VIS 426W - Senior Project II- **All sections of the course are Applied Learning approved**

Elective Applied Learning Courses by Program

All of the below listed courses are approved as Applied Learning courses (Full), and completion of any one will satisfy the graduation requirement.

Applied Mathematics, B.S.

Students in the Applied Mathematics degree program may satisfy the Applied Learning requirement by enrolling in an approved section of the elective course MTH 326:

- **MTH 326 - Mathematical Modeling in Applied Sciences (Full)**
- 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 Credits: 3 (3,0)

The prerequisite for this course (MTH 151) is already embedded within the Applied Mathematics Degree Program.

Business Management, B.S.

Students in the Business Management degree program may satisfy the Applied Learning requirement in one of the following ways:

Students may enroll in an approved section of the Writing Intensive Strategic Management course 409W (not 409), a required course for this degree program.

The requirement may also be satisfied by taking an approved section of one of the following courses:

- **BUS 305 - Entrepreneurship (Full) - All sections of the course are Applied Learning approved**
  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): Managerial course or Department approval. Credits: 3 (3,0)
- **BUS 322 – International Management - All sections of the course are Applied Learning approved**
  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 Credits: 3 (3,0)

- **BUS 367 - Negotiation and Conflict Resolution (Full) - All sections of the course are Applied Learning approved**
  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 Credits: 3 (3,0)
- **BUS 379 – Business Internship - All sections of the course are Applied Learning approved**
  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: 3-12 (1,0,6)
- **BUS 391 – Social Media Marketing**
  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 Credits: 3 (3,0)
- **BUS 409W - Strategic Management (Writing Intensive) - All sections of the course are Applied Learning approved**
  This course covers key strategic management topics including internal and external scanning for SWOT 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. This is a writing intensive course. Students who have previously completed IND 409 cannot receive credit for BUS 409. Prerequisite(s): BUS 300 and EGL 101 with a C or higher, Senior level status Credits: 3 (3,0)
- **BUS 460 - Leadership and Ethics - All sections of the course are Applied Learning approved**
  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. Credits: 3 (3,0)

- **BUS 494 - Seminar in Global and International Business (Full) - All sections of the course are Applied Learning approved**
  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. Prerequisite(s): BUS 280, 320, 322, and 409 Credits: 3 (3,0)

**Note: Not all of the prerequisites for this course are NOT naturally embedded within the Business Management degree program, but may be supplemented as electives.

Students may also satisfy the Applied Learning requirement by taking an internship for credit through the department:

- **BUS 379 - Business Internship (Full)- All sections of the course are Applied Learning approved**
  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: 3-12 (1,0,6)

**Note the requirements in addition to prerequisite courses.

Some Business Management courses may also occasionally be offered as a study abroad program. This would also satisfy the Applied Learning requirement.

Geographic Information Systems, B.S.

Students in the Geographic Information Systems degree program may satisfy the Applied Learning requirement by enrolling in the elective course GIS 492 Internship:

- **GIS 492 Internship in GIS - All sections of the course are Applied Learning approved**
  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. Prerequisite(s): Approval by Program Director or Student's Dept. Chair Credits: 3 (1,0,6)

Students in the Geographic Information Systems degree program are required to take either GIS 491 Senior Seminar **OR** GIS 492 Internship course.

Security Systems, B.S.

Students in the Security Systems degree program may satisfy the Applied Learning requirement by enrolling in the elective course SST 491 Internship:

- **SST 491 – Security Systems Internship - All sections of the course are Applied Learning approved**
  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. Level: 400, Credits: Credits:3 (9,0)

Current Approved Applied Learning Courses

The following courses include sections that are Applied Learning approved as of the 2025-2026 academic year. Successful completion of any course denoted as “Enhanced” partially fulfills the graduation requirement. Completion of other courses satisfy the graduation requirement alone.

****NOTE: Students should confirm the Applied Learning designation of specific classes. The course must bear Applied Learning designation to count towards the graduation requirement. Courses approved prior to 2020 are approved by specific instructors and not all sections of the course may be Applied Learning approved. As of 2020, courses will be approved for all sections. These courses for which all sections are AL approved are noted below and have a note “All sections of the course are Applied Learning approved.”**

For more information regarding what makes a course an Enhanced course, see *Applied Learning: A Guide for Planning, Implementation, and Assessment*, posted on the Nexus Center website.

Aeronautical Science – Professional Pilot

AVN 105 - Private Pilot Flight to Solo - All sections of the course are Applied Learning approved
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 Credits: 1 (0,0,4)

AVN 106 - Private Pilot Flight to Certificate - All sections of the course are Applied Learning approved
Private Pilot Flight training will enable the 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 he/she 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 Credits: 1 (0,0,4)

AVN 209 - Instrument Pilot Flight - All sections of the course are Applied Learning approved
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 Credits: 1 (0,0,4)

AVN 212 - Commercial Pilot Flight - All sections of the course are Applied Learning approved
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 Credits: 1 (0,0,4)

Anthropology

ANT 480 - Research Internship I - All sections of the course are Applied Learning approved
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: 1 (0,0,3)

ANT 481 - Research Internship I - All sections of the course are Applied Learning approved
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: 2 (0,0,6)

ANT 482 - Research Internship I - **All sections of the course are Applied Learning approved** 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: 3 (0,0,9)

ANT 485 - Research Internship II - **All sections of the course are Applied Learning approved** 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: 1 (1,0)

ANT 486 - Research Internship II - **All sections of the course are Applied Learning approved** 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: 2 (2,0)

ANT 487 - Research Internship II - **All sections of the course are Applied Learning approved** 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: 3 (3,0)

Applied Economics

ECO 380 – Econometrics - All sections of the course are Applied Learning approved
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 and (MTH 117 or MTH 129) and (ECO 156 or ECO 157) and Junior level status. Credits: 3 (3,0)

ECO 365 – R for Economics - All sections of the course are Applied Learning approved
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: 3 (3,0)

ECO 491 – Applied Economic Analysis - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

Applied Gerontology

GRO 460 – Internship in Gerontology - All sections of the course are Applied Learning approved
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)

Applied Mathematics

MTH 326 - Mathematical Modeling in Applied Sciences - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

Applied Psychology

PSY 316 – Atypical Development - All sections of the course are Applied Learning approved
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
Level: 300
Credits: Credits:3 (3,0)

PSY 321 - Child Cognitive Development - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

PSY 325 - Principles of Survey Research - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

PSY 375 - Mentoring Youth - All sections of the course are Applied Learning approved
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 Credits: 3 (2,0,2)

PSY 410 - Individual and Group Counseling (Enhanced) - All sections of the course are Applied Learning approved
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. Credits: 3 (3,0)

PSY 414 - Applied Personnel Psychology - All sections of the course are Applied Learning approved
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. Credits: 3 (3,0)

PSY 442 - Applied Psychology Senior Project: Professional Development - All sections of the course are Applied Learning approved
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 his/her 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 Credits: 3 (1,0,6)

PSY 443 - Applied Psychology Senior Project II: Career Planning - All sections of the course are Applied Learning approved
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 his/her 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): Permission of department Chairperson Credits: 3 (1,0,6)

Architecture and Construction Management

ARC 100 - Introduction to Architecture and Culture - All sections of the course are Applied Learning approved

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 20th century 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 a 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. Credits: 3 (3,0)

ARC 303 - Construction/Architecture Internship - All sections of the course are Applied Learning approved
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, CON 162 and CON 207, Junior-level status, and Department Chair approval Credits: 3 (1,0,6)

ARC 310 - Construction Design - All sections of the course are Applied Learning approved
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 131, CON 106, and ARC 263 Credits: 4 (3,2)

ARC 364 - Site Design and Construction - All sections of the course are Applied Learning approved
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): CON 162 and (ARC 131 or CON 121) Credits: 3 (2,2)

ARC 376 - Architectural Design III - All sections of the course are Applied Learning approved
Continuation of Architectural Design II. Emphasis is placed on the urban and natural environment. The role of aesthetics, symbols, and the use of historical elements in the making of places, spaces and communicating meaning are explored. Topics include: building on Main Street, the making of an urban space and a cemetery or park design. Note: This course includes a required laboratory designed to provide extra time for the studio experience. Prerequisite(s): ARC 257 Credits: 4 (3,0,2)

ARC 476 - Architectural Design IV - All sections of the course are Applied Learning approved

Continuation of Architectural Design III. Emphasis is placed a project that integrates principles of architectural design 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 experience. Prerequisite(s): ARC 376 Credits: 4 (3,0,2)

ARC 486 – Architectural Design V - All sections of the course are Applied Learning approved
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 in the final semester, ARC 364, and ARC 476. Credits: 4

CON 496 - Capstone Project - All sections of the course are Applied Learning approved
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 and substantial completion of the program. Credits: 3 (2,0,3)

Automotive Management Technology

AET 410 Senior Project - All sections of the course are Applied Learning approved
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: 3 (2,2)

IND 406W - Energy Management - All sections of the course are Applied Learning approved
This is a writing intensive course. 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. Prerequisite(s): MET 212, MET 230 and MET 314 and EGL 101 with a grade of C or higher Credits: 3 (3,0)

Aviation Administration

AVN 350 – Air Traffic Management - All sections of the course are Applied Learning approved
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 AVN101) and (AVN 202 or PHY 116) with a grade of C or higher. Credits: 3 (3,0)

Biology

BIO 380 - Pre-Professional Experience I - All sections of the course are Applied Learning approved
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 220 or BIO 414 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. Credits: 3 (0,9)

BIO 381 - Pre-Professional Experience II - All sections of the course are Applied Learning approved
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. Credits: 3 (0,9)

BIO 441L - Introduction to Molecular Biology - All sections of the course are Applied Learning approved
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 Credits: 5 (3,4)

BIO 480L - Bioscience Internship I (This course code is specified for Undergraduate Research) - All sections of the course are Applied Learning approved
Bioscience Internship I, represents substantial projects or work experiences for 135 hours earning 3 credits Note: Students seeking credit for health care shadowing/assisting and/or volunteer work should register for BIO 380 and/or BIO 381 instead. Prerequisite(s): (BIO 343 and BIO 344L) and (BIO 348 and 349L). Submission of resume 3 months in advance; Biology faculty recommendation or invitation Corequisite(s): BIO 441 Credits: 3 (0,0,9)

BIO 481L - Bioscience Internship II - All sections of the course are Applied Learning approved
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. Credits: 3 (0,0,9)

Business

BUS 305 – Entrepreneurship - All sections of the course are Applied Learning approved
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): Managerial course or Department approval. Credits: 3 (3,0)

BUS 322 – International Management - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

BUS 367 - Negotiation and Conflict Resolution - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

BUS 379 - Business Internship - All sections of the course are Applied Learning approved
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: 3-12 (1,0,6)

BUS 391 – Social Media Marketing - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

BUS 395 – Creativity and Innovation - All sections of the course are Applied Learning approved
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. Level: 300, Credits: Credits:3 (3,0)

BUS 409W - Strategic Management (Writing Intensive ONLY) - All sections of the course are Applied Learning approved
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. Note: Students cannot get credit for BUS 409 and 409W; BUS 409W can be used to fulfill the writing intensive requirement. Prerequisite(s): BUS 300, Senior Level status Credits: 3 (3,0)

BUS 448 - Business Analytics Project *AL - All sections of the course are Applied Learning approved
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. Prerequisite(s): BUS 440 with a grade of C or higher Credits: 3 (3,0)

BUS 460 - Leadership and Ethics - All sections of the course are Applied Learning approved
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. Credits: 3 (3,0)

BUS 494 - Seminar in Global and International Business - All sections of the course are Applied Learning approved
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. Prerequisite(s): BUS 280, 320, 322, and 409 Credits: 3 (3,0)

Chemistry

CHM 480 – Chemistry Research I - All sections of the course are Applied Learning approved
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. Credits: 3 (0,0,9)

Civil Engineering Technology

CIV 496 - Capstone Project- All sections of the course are Applied Learning approved
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: 3

Computer Programming and Information Systems

BCS 430W - Senior Project (Writing Intensive) - All sections of the course are Applied Learning approved

The primary objective of this 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 BCS301 (Systems Analysis and Design) and BCS260 (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. In addition to prerequisites, a second level programming course with a grade of C or better, and Senior level status is required. This is a writing-intensive course. Note: Students cannot get credit for BSC 430 and 430W; BCS 430W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Computer Programming and Info Systems Department. Prerequisite(s): EGL 101, BCS 260, BCS 230 and BCS 301 all with a grade of C or higher Credits: 3 (3,0)

BCS 440 - CPIS Internship - All sections of the course are Applied Learning approved
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. Credits: 3 (1,0,6)

Computer Science

CSC 490 - Senior Project - All sections of the course are Applied Learning approved
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 and Senior Level Standing Credits: 3 (3,0)

Computer Security Technology

CPS 405W - Senior Project - All sections of the course are Applied Learning approved
This capstone course will require students to employ the technical knowledge they gathered throughout the curriculum in order to carry out an independent research project on a topic related to computer security technology. Under supervision of a Faculty member, students will produce creative projects, generate research papers, and present their work. Prerequisite(s): CPS 401 Credits: 3 (3,0)

CPS 491 – Computer Security Internship - All sections of the course are Applied Learning approved

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. Level: 400. Credits: Credits:3 (3,0).

Criminal Justice

CRJ 201 - Criminalistics – All sections of the course are Applied Learning approved
The role of the Crime Laboratory in the law enforcement organization; scope of a criminalistic operation; organizational orientation of the criminalistics laboratory. Reconstruction of the crime scene through computer animation methods. Prerequisite(s): CRJ 100 and CRJ 200 Credits: 3 (3,0)

CRJ 316 – Victimology (Enhanced) - All sections of the course are Applied Learning approved
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: 3

CRJ 410W - Senior Project - All sections of the course are Applied Learning approved
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. Credits: 3 (1,0,6)

CRJ 460W – Senior Project - All sections of the course are Applied Learning approved
Students in this course develop a criminal justice topic in the area of police, courts, corrections or intelligence that is of interest to both the student and a faculty member who shall act as project advisor. The project selected will utilize competencies acquired in criminal justice and related courses. Students will either develop an independent project or work with an advisor on on-going research. The advisor will work with the student to define the project based on the student's academic and career path. Prerequisite(s): Senior status in Criminal Justice B. S. degree program Credits: 3 (1,0,2)

CRJ 458 - Criminal Justice Internship - All sections of the course are Applied Learning approved
This course will provide seniors in the Criminal in the Criminal Justice Program with the opportunity to apply their coursework and academic experience in the criminal justice field. Students participate in an internship in a local government, non-profit or private agency, with experiences ranging from research to practical. The determination of the placement of the student or the applied learning type will be determined by conversations between the student and the faculty advisor. Prerequisite(s): Senior Status in the Criminal Justice Program Credits: 3 (1,0,6)

Dental Hygiene

DEN 222 - Community Oral Health II (Enhanced) - All sections of the course are Applied Learning approved
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 Credits: 2 (2,0)

DEN 225 - Clinical Dental Hygiene II - All sections of the course are Applied Learning approved
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 Corequisite(s): DEN 220 Credits: 3 (1,0,8)

DEN 235 - Clinical Dental Hygiene III - All sections of the course are Applied Learning approved
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 220 Corequisite(s): DEN 230 Credits: 4 (1,0,12)

DEN 245 - Clinical Dental Hygiene IV - All sections of the course are Applied Learning approved
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 and BIO 220 Corequisite(s): DEN 240 Credits: 5 (1,0,16)

DEN 322 - Dental Public Health Planning - All sections of the course are Applied Learning approved
This course will provide the students with the concepts of dental public health. These principles include health literacy, oral epidemiology, and methods used to measure dental disease in a given population. Emphasis will be placed on the process of program assessment, planning, implementation, and evaluation to design an intervention program to improve oral health in the community. Evidence-based prevention and research principles will be explored. In addition, students will be involved in statistical analyses that will prepare them to become patient advocates and resource persons in the dental public health setting. Prerequisite(s): DEN 310 with a grade of C or higher. Credits: 3 (3,0)

DEN 335 – Essentials of Clinical Practice I - All sections of the course are Applied Learning approved
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 220 with a grade of C or higher. Corequisite(s): DEN 330 Credits: 3 (0,0,9)

DEN 345 Essentials of Clinical Practice II - All sections of the course are Applied Learning approved
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 302, DEN 330, DEN 335 Credits: 3 (0,0,9)

DEN 409 - Dental Hygiene Practicum - All sections of the course are Applied Learning approved
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. Credits: 3 (3,0)

DEN 435 - Advanced Dental Hygiene Practice I - All sections of the course are Applied Learning approved
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 340 and DEN 345 with a grade of C or higher. Corequisite(s): DEN 430 Credits: 4

DEN 445 - Advanced Dental Hygiene Practice II - All sections of the course are Applied Learning approved
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 Credits: 4 (0,0,12)

Electrical and Computer Engineering Technology

EET 452W - Design Project - Writing Intensive - All sections of the course are Applied Learning approved
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 Credits: 2 (1,2)

English

EGL 310 - Technical Writing - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

Geographic Information Systems

GIS 391 GIS Practicum - All sections of the course are Applied Learning approved
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: 3 (0,0,6)

GIS 492 Internship in GIS - All sections of the course are Applied Learning approved
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. Prerequisite(s): Approval by Program Director or Student’s Dept. Chair Credits: 3 (1,0,6)

Health Promotion and Wellness

HPW 450 - Health & Wellness Internship - All sections of the course are Applied Learning approved
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, Junior level status and Approval of department chair. Credits: 3 (1,0,9)

HPW 400 - Community Health - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

History, Politics, and Geography

HIS 281 - Modern Latin America - All sections of the course are Applied Learning approved
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. Prerequisite(s): EGL 101 Credits: 3 (3,0)

HIS 312 – Latin American Popular Culture in the 20th Century – AL Enhanced Course - All sections of the course are Applied Learning approved
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. Credits: 3

Horticulture

HOR 474 - Design Capstone Project - All sections of the course are Applied Learning approved
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 and 372 or Department approval. Credits: 4 (2,4)

HOR 475 - Horticulture Practicum - All sections of the course are Applied Learning approved
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. Prerequisite(s): Department Chair approval. Students enrolled in HOR475 should have Senior Level status and substantial completion of the program. Credits: 4 (2,4)

Industrial Technology (IND)

IND 406W - Energy Management - All sections of the course are Applied Learning approved
This is a writing intensive course. 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. Prerequisite(s): MET 212, MET 230 and MET 314 and EGL 101 with a grade of C or higher Credits: 3 (3,0)

Interaction Design (IXD)

IXD 330 – Design for Social Change - All sections of the course are Applied Learning approved
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, IXD 212 with a grade of C+ or higher

VIS 416W - Senior Project and Portfolio I - Writing Intensive - All sections of the course are Applied Learning approved
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. Prerequisite(s): VIS 414 or IXD 320 and IXD 322 all with a C+ or higher Credits: 3 (2,2)

VIS 426W - Senior Project II- Writing Intensive - All sections of the course are Applied Learning approved
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. This is a writing intensive course. Prerequisite(s): VIS 416 Corequisite(s): VIS 418 Credits: 3 (2,2)

Manufacturing and Mechanical Engineering Technology

MET 410W - Senior Project-Writing Intensive - All sections of the course are Applied Learning approved
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: Students cannot get credit for MET410 and 410W; MET 410W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Automotive & Mechanical Engineering Technology Department. Prerequisite(s): Senior Status and Approval of Department Chair and EGL 101 with a grade of C or better. Credits: 3 (3,0)

Medical Laboratory Sciences

MLS 236 - Histological Techniques - All sections of the course are Applied Learning approved
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): MLT 105 and BIO 130 and (BIO 166 or BIO 171) all with a grade of C or higher. Credits: 1 (0,0,3)

MLS 281 - Practicum in Immunohematology
Students practice clinical skills in Immunohematology (Blood Bank) 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): MLT 228 with a grade of C or higher Credits: 1 (0,3)

MLS 282 - Practicum in Clinical Chemistry and Serology
Students practice clinical skills in Clinical Chemistry and Serology 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): MLT 227 and 244 both with a grade of C or higher Credits: 1 (0,3)

MLS 283 - Practicum in Hematology and Urinalysis
Students practice clinical skills in Hematology and Urinalysis at local affiliated clinical laboratories under the guidance of clinical laboratory personnel. They are evaluated by the person in charge of their internship for both technical proficiency and professional behavioral characteristics. Prerequisite(s): MLT 223 and 244 both with a grade of C or higher Credits: 1 (0,3)

MLS 284 - Practicum in Clinical Microbiology
Students practice clinical skills in Microbiology through a ten day full time 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): MLT 257 and 258 both with a grade of C or higher Credits: 1 (0,3)

MLS 481 - Advanced Practicum in Immunohematology - All sections of the course are Applied Learning approved
Students practice advanced clinical skills in Immunohematology (Blood Bank) 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): MLT 428 with a grade of C or higher

MLS 482 - Advanced Practicum in Clinical Chemistry and Hematology - All sections of the course are Applied Learning approved
Students practice advanced clinical skills in Clinical Chemistry and Hematology 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): MLT 423 and 443 with a grade of C or higher Credits: 1 (0,3)

MLS 483 - Practicum in Molecular Pathology - All sections of the course are Applied Learning approved
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): MLT 421 with a grade of C or higher Credits: 1 (0,3)

MLS 484 - Advanced Practicum in Clinical Microbiology - All sections of the course are Applied Learning approved
Students practice advanced clinical skills in Microbiology 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): MLT 421 with a grade of C or higher Credits: 1 (0,3)

MLS 491 - Immunohematology Practicum - All sections of the course are Applied Learning approved
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): MLT 330 with a grade of C or higher. Credits: 2 (0,0,6)

MLS 492 - Clinical Chemistry & Serology Practicum - All sections of the course are Applied Learning approved
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): MLT 227 and MLT 340 all with a grade of C or higher. Credits: 2 (0,0,6)

MLS 493 - Hematology & Urinalysis Practicum - All sections of the course are Applied Learning approved
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): MLT 320 and MLT 420 all with a grade of C or higher. Credits: 2 (0,0,6)

MLS 494 - Microbiology Practicum - All sections of the course are Applied Learning approved
By altering the clinical experience from two shorter length courses to one full length course, the students will benefit from more consecutive experience in the clinical laboratory. Previously, half the clinical experience was spent performing tasks at the MLT AS level, and the other half at the BS MT level, in two separate courses. With this change the students are expected to spend their entire clinical time being trained at the baccalaureate level, thereby strengthening their preparedness for entrance into practice. Prerequisite(s): MLT 350 and MLT 351 and MLT 450 all with a grade of C or higher. Credits: 2 (0,0,6)

Modern Languages

MLG 201 - Italian Food, Culture, and History (Enhanced) – Only select sections of the course taught by Dr. Chiara De Santi are Applied Learning approved
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 Credits: 3 (3,0)

MLG 300 - International Cinema - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

MLG 301 - Italian Cinema (In English) - Only select sections of the course taught by Dr. Chiara De Santi are Applied Learning approved
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 Credits: 3 (3,0)

MLG 306 - Italian Culture and Civilization (Enhanced) - Only select sections of the course taught by Dr. Chiara De Santi are Applied Learning approved
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 Credits: 3 (3,0)

Nursing

NUR 114T - Clinical and Theoretical Foundations of Baccalaureate Nursing Practice - All sections of the course are Applied Learning approved
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 interdisciplinary 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, 171 Corequisite(s): NUR 114H, 114L, 114S, NUR 100, 100L Credits: 7 (2,5)

NUR 217T - Care of Individuals Experiencing Acute Health Challenges - All sections of the course are Applied Learning approved
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 110, NUR 114 with a grade of C+ or higher. Corequisite(s): NUR 217H Credits: 6 (3,0)

NUR 301T - Caring for Populations in the Community Setting - All sections of the course are Applied Learning approved
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. 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 215 and NUR 216 with a grade of C+ or higher Corequisite(s): NUR 301H Credits: 4 (2,0)

NUR 307T - Nursing Care of Children and the Child Bearing Family - All sections of the course are Applied Learning approved
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, 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. 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 216, and NUR 217 with a grade of C+ or higher. Corequisite(s): NUR 307H Credits: 6 (3,0)

NUR 308T - Care of Individual Chronic Health - All sections of the course are Applied Learning approved
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 306H Credits: 6 (3,0)

NUR 402T - Community and Mental Health Nursing - All sections of the course are Applied Learning approved
This 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. 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 306 Corequisite(s): NUR 402H Credits: 4 (2,0)

NUR 405T - Nursing Practicum: Special Topics - All sections of the course are Applied Learning approved
This course will allow the senior nursing student to integrate and apply knowledge from all previous courses. Under the direct supervision of an experienced registered nurse, the student will care for a variety of patients in a health care setting. Concepts including leadership, critical thinking, and quality improvement will be applied in caring for patients, families, and communities to improve healthcare outcomes. Prerequisite(s): NUR 402 and 404 with a grade of C+ or higher Corequisite(s): NUR 405H Credits: 9 (1,0,24)

NUR 406T - Senior Leadership Practicum - All sections of the course are Applied Learning approved
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 Credits: 5 (1,0)

Nutrition Science

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. Prerequisite(s): HPW 325 and Junior -Level status Credits: 3 (3,0)

Physics

PHY 480 - Physics Research I - All sections of the course are Applied Learning approved
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 Credits: 3 (0,0,9)

PHY 481 - Physics Research II - All sections of the course are Applied Learning approved
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 Credits: 3 (0,0,9)

Politics

POL 399 - NYS Legislative Internship - All sections of the course are Applied Learning approved
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.

Professional Communications

PCM 450 - Professional Communications Internship I - All sections of the course are Applied Learning approved
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 or permission of department chair. Credits: 3 (1,0,6)

PCM - 455 Senior Project in Professional Communication- All sections of the course are Applied Learning approved
Students will identify a professional context for their project, analyze the audience associated with that context, and compose a proposal that identifies the scope and implications of their project. The majority of the semester is spent crafting and revising a series of professional deliverables in consultation with the professor. This course is equivalent to PCM 450. You cannot get credit for PCM 455 if you have taken PCM 450. Prerequisite(s): At least one PCM course at the 400 level with a grade of C or higher, except PCM 450 Credits: 3

RAM Program

RAM 303, 306, 309, 312 - Research Experience - All sections of the course are Applied Learning approved
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. Credits: 3 (0,0,6)

Science, Technology, and Society

STS 401W - Internship in Science, Technology, & Society - Writing Intensive - All sections of the course are Applied Learning approved
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. Note: Students cannot get credit for STS 401 and 401W; STS 401W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Science, Technology, & Society Department Prerequisite(s): Senior status in STS program and approval of Department Chair and EGL 101 with a grade of C or higher. Credits: 3 (1,0,6)

STS 400W - Senior Seminar in Science, Technology, & Society - Writing Intensive - All sections of the course are Applied Learning approved
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. Note: Students cannot get credit for STS 400 and 400W; STS 400W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Science, Technology, & Society Department Prerequisite(s): Senior status in STS program and EGL 101 with a grade of C or higher. Credits: 3

Security Systems Technology

SST 490W – Senior Project - All sections of the course are Applied Learning approved
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. Level: 400, Credits: Credits:3 (9,0)

SST 491 – Security Systems Internship - All sections of the course are Applied Learning approved
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. Credits: 3 (3,0)

Sociology

SOC 303 – Sociology of Work and Occupation – Enhanced Course - All sections of the course are Applied Learning approved
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 Credits: 3 (3,0)

SOC 480 – Research Internship I - All sections of the course are Applied Learning approved
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: 1 (0,0,3)

SOC 481 – Research Internship I - All sections of the course are Applied Learning approved
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: 2 (0,0,6)

SOC 482 – Research Internship I - All sections of the course are Applied Learning approved
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: 3 (0,0,9)

SOC 485 – Research Internship II - All sections of the course are Applied Learning approved
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: 1 (0,0,3)

SOC 486 – Research Internship II - All sections of the course are Applied Learning approved
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: 2 (0,0,6)

SOC 487 – Research Internship II - All sections of the course are Applied Learning approved
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: 3 (0,0,9)

Software Technology

SET 410W - Senior Project - All sections of the course are Applied Learning approved

This is a capstone course which will require the student to utilize the skills and competencies gained in the program to develop and implement real world projects. With the guidance from the instructor, students may address specific problems in a company or industry and develop solutions involving software applications. Using the skills and competencies gained in software applications, the student will be able to determine research methodologies, selection of a project setting limitations for a project, defining the problem, conducting an industry study, establishing process flow for the configures system, going alive with the new system, turning over the control of the system, and providing maintenance and service support. Note: Students cannot get credit for SET 410 and 410W; SET 410W can be used to fulfill the writing intensive requirement. Note: Offered at the discretion of the Automotive & Mechanical Engineering Technology Department Prerequisite(s): Senior Status and Departmental Approval. Credits: 3 (3,0)

Sport Management

SMT 370 - Research in Sport Management - All sections of the course are Applied Learning approved
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. Credits: 3

SMT 440 - Sport Management Internship - All sections of the course are Applied Learning approved
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. Credits: 6 (1,0,15)

International Education & Programs (Study Abroad/Study Away)

Students may also be able to earn Applied Learning credit by participating in the Study Abroad/Study Away opportunities. For more information, email the IEP Office at international@farmingdale.edu or call 934-420-2479.

Applied Learning Approved Opportunities:

Disney College Program
Study Abroad
Washington Internship Institute

Visual Communications

VIS 356 - Internship I - All sections of the course are Applied Learning approved
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. Credits: 3 (1,0,6)

VIS 416W - Senior Project and Portfolio I - Writing Intensive - All sections of the course are Applied Learning approved
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. Prerequisite(s): VIS 414 or IXD 320 and IXD 322 all with a C+ or higher Credits: 3 (2,2)

VIS 426W - Senior Project II- Writing Intensive - All sections of the course are Applied Learning approved
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. This is a writing intensive course. Prerequisite(s): VIS 416 Corequisite(s): VIS 418 Credits: 3 (2,2)