Science, Technology and Society - BS

What is the Bachelor in Science in Science, Technology and Society?

Farmingdale State College's Bachelor of Science (BS) in Science, Technology and Society (STS) is a dynamic interdisciplinary program that allows students to explore the connections between science, technology, and society. With a cutting-edge focus on globalization, scientific advancement, and technological innovation, Science, Technology and Society represents the epitome of the applied social science program of the 21st century. The STS program addresses the employment needs of the region and the diverse academic interests of its majors by providing students with an interdisciplinary program of study that incorporates the practical uses of technological knowledge, scientific inquiry, the application of theory to complex problems, and an integrated approach to the learning process. Our students examine the real-world effects of globalization, exploring the historical, political, economic, and sociological impact of worldwide industrialization, cross-border technology transfer, global environmental issues, transnational economic interdependence, the spread of information and communication technologies, and other important facets of the current process of globalization. In addition to hands-on training in the technology-related fields, STS majors also develop a strong background in the ways in which scientific, technological, and industrial development have influenced and continue to shape history, society, culture, and commerce on the local, national, and international levels. Consequently, the Science, Technology and Society program:

- provides students with an opportunity to broaden their view of the applications of science and technology upon society;
- fosters an appreciation of the ways in which technology interacts with the social sciences and other disciplines;
- gives students the freedom to investigate a particular subject area deeply, while also exploring comparative and complex issues involving globalization, media, technological change, global health, commerce, industry, and environmental sustainability;
- promotes a holistic view of globalization through real-world applications and by viewing it from a variety of different disciplinary perspectives.

Graduates of the Science, Technology and Society program are suited for employment in a variety of settings where their broad view of the technologies, applied sciences, social sciences and humanities are desirable for the solution of problems. In particular, the program prepares students for careers in technological and health professions, government and nongovernmental organizations (NGOs), environmental agencies, commerce and business, law, diplomacy, and graduate work in the social sciences and liberal arts, as well as education. Students who are interested in environmental sustainability are able to take advantage of Farmingdale State College's various "green" initiatives, including our nationally-recognized Solar Energy Center, the Green Building Institute, and other facilities associated with sustainable energy.

As globalization places increasingly complex demands on the workforce of the new millennium, international corporations on Long Island have indicated that their graduate needs include graduates who possess the skills developed by completing the STS program. While the primary focus of the program is to prepare its graduates for careers in the local Long Island region or throughout New York State, graduates of the STS program have a wide variety of employment options available to them upon graduation. For example, alumni of the program may wish to pursue additional training in an area that they investigated as one of their focused fields of study or may elect to pursue graduate studies in a related field of study. As a result, the STS program provides students with a breadth of choices to embark upon once they have completed their degree.

For course descriptions, link to http://www.farmingdale.edu/registrar/schedule.shtml.

### Curriculum Summary

**Degree Type:** BS  
**Total Required Credits:** 121  
**Admission Requirements**  
- Units of Defined Math:  
- 1 Unit of Laboratory Science  
- School of Arts & Sciences  

For additional information:  
- Dr. Robert Saunders, Acting Chair  
- Science, Technology and Society Department  
- robert.saunders@farmingdale.edu  
- 631-420-2220

Program of Study

**Liberal Arts and Sciences (64 credits)**

- EGL 101 Composition 1 - College Writing (GE) .................. 3  
- EGL 102 - Composition 2 - Writing about Literature ................. 3  
- Humanities (GE) ..................................................................... 3  
- The Arts (GE) ...................................................................... 3  
- American History (GE) .................................................. 3  
- Other World Civilizations (GE) ........................................... 3  
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- Mathematics (GE) .......................................................... 3  
- Foreign Language - Level I (GE) ........................................ 3  
- Social and Behavioral Science (GE) ................................. 3  
- Natural Sciences (GE) ...................................................... 4

**Additional Required courses:**  
- Mathematics (MTH 110 or higher) ...................................... 3  
- Liberal Arts and Sciences electives .............................. 12  

**Capstone Course:**  
- Science, Technology and Society Seminar (TST 400W) or Internship (TST 401W) .................. 3  
- Note: TST 400W and TST 401W fulfill the Writing Intensive Requirement

**TST Core Electives** from within the School of Arts & Sciences ................................. 12  
**Note:** at least two courses must be at the 300-level

- ANT 210 Anthropology & Globalization  
- ANT 250 Forensic Anthropology  
- BIO 130 Biological Principles I  
- BIO 131 Biological Principles II  
- CHM 152 General Chemistry Principles I  
- CHM 153 General Chemistry Principles II  
- CHM 270 Organic Chemistry  
- CHM 271 Organic Chemistry II  
- ECO 310 Health Economics and Policy  
- ECO 320 Economics of the Internet Age  
- ECO 321 Engineering Economics  
- ECO 340 International Trade  
- ECO 341 International Finance  
- ECO 358 Economics of Labor  
- EGL 209 Technical Communications  
- EGL 240 Themes in Science Fiction in Film and Literature  
- EGL 308 The City in Literature, Art, Film And Theatre  
- EGL 310 Technical Writing  
- EGL 311 Introduction to Writing for Electronic Media  
- HIS 200 Introduction to Historical Methods  
- HIS 212 Technology, Politics and the Modern World  
- HIS 243 History of Public Health Care and Medicine  
- HIS 243 Science and The West  
- HIS 305 Culture and Technology: The Industrial Revolution in England,1750-1880  
- HIS 306 From Farm to Factory: The Transformation of America 1820-1920  
- HIS 307 Iron And Blood – Technology and Politics in Germany 1815 – Present  
- HIS 310 Revolution and Reform: Technology and Society in Russia, 1917 – Present  
- HIS 320 Prometheus Unbound: Science, Technol-ogy and Society in Europe 1700 – Present  
- HIS 335 Gender and Technology in Historical Perspective  
- HIS 341 Terrorism and the Modern World  
- HIS 342 History of Television  
- PCC 303 Media in Communications  
- PCC 311 Introduction to Writing for Electronic Media  
- PCC 315 Research Techniques  
- PCC 320 Communications in Business

Admission is based on the qualifications of the applicant without regard to age, sex, marital or military status, race, color, creed, religion, national origin, disability or sexual orientation.

**Curriculum Information Guide**

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  - Office of Admissions: 631-420-2200

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Students who wish to fulfill the academic requirements for the Bachelor of Science Degree in Science, Technology and Society must complete the General Education requirements for a Bachelor's degree at the college. In addition, students must select electives that are pertinent to their course of study, a common core of Science, Technology and Society courses, a senior seminar or internship, and either a Focused Depth or Clustered Depth concentration from the wide range of technology offerings at the college.

1 - General Education Requirements: Students should refer to the front of the catalog and consult with their academic advisor to ensure that the general education requirements for the Bachelor's degree are fulfilled correctly.

2 - Focused Depth Concentration: Students must complete 21 credits in a single field of study. The remaining credits must be comprised of three units of at least 9 credits each in other fields.

3 - Clustered Depth Concentration: Students must complete a minimum of four (4) clusters of courses, each of which comprises a minimum of 12 credits within the same discipline.

4 - Students must take at least one three credit hour course designated as Writing Intensive to graduate.