



## 2014 Fall Course Offerings Science, Technology and Society Director: Professor Steve Cutcliffe

### **STS 011-10 Technology and Human Values (SS) 4 credits CRN 40575**

Impact of technology on society in relation to ethical problems raised by the exploitation of technological innovations. Illustrations from history, social studies, philosophy, literature, and film. *Professor Goldman*  
T, R / 9:20 - 10:35 a.m.

### **STS, JOUR 124-10 Politics of Science (SS) 4 credits CRN 45882**

Analysis of the multidimensional interaction between the federal government and the scientific community. Explores historical growth of the science-government connection, the scientific establishment both past and present, and the role of scientific advice to the White House and Congress. Also examines scientific ethics, public attitudes toward science, science-society interactions, and case studies of scientific controversies. *Professor Friedman*  
T, R / 1:10 - 2:25 p.m.

### **STS 181 Independent Study (HU/SS) 1-4 credit**

**Section 10 - CRN 40871;** *Professor Cutcliffe*

**Section 11 - CRN 48768;** *Professor Goldman*

**Section 12 - CRN 48769;** *Professor Best*

Prerequisite: consent of the program director.

### **STS, HMS, HIST 196-10 Food, Health & Modern America (HU) 4 credits CRN 49399**

This course will explore the relationship between food and health in American history, with a particular focus on the nineteenth thru twenty-first centuries. Key themes or questions examined will be the interconnection between the American ideal of individualism and the popularity of alternative or lay health remedies; the privileging of nature as a curative force; public and governmental concerns with food purity and access; the scientific and popular framing of food as medicine; and the use of health and food consumerism as a marker of class status. *Professor McGrath*  
M, W / 12:45 - 2:00 p.m.

### **STS, HIST 197-10 Science, Technology and the American Constitution (SS) 4 credits CRN 49475**

An examination of the contours of Constitutional history in the United States to provide a basis for exploring key areas governing scientific and technological undertakings. Topics addressed will include the establishment and ongoing development of property rights in scientific and technological inventions flowing from the "patent clause;" the historical development and interpretation of the so-called "commerce-clause" and its importance as a basis for governmental response to the rise of an industrially and technologically complex society; and the evolving interpretation of the Bill of Rights and the 14th Amendment to examine the relationship between the "right of privacy" and technology in 20th and 21st century-America. *Professor Kunkle*  
T, R / 2:35 - 3:50 p.m.

### **STS, CSE, EMC 252-10 Computers, the Internet, and Society (SS) 3 credits CRN 41494**

An interactive exploration of the current and future role of computers, the Internet, and related technologies in changing the standard of living, work environments, society and its ethical values. Privacy, security, depersonalization, responsibility, and professional ethics; the role of computer and Internet technologies in changing education, business modalities, collaboration mechanisms, and everyday life. *Professor Crane*  
T,R / 2:35 - 3:50 p.m.

### **STS 381-10 Senior Seminar (SS) 4 credits CRN 40576**

In-depth study of selected topics in science, technology, and society with special attention to methodological issues. Subject matter may vary from semester to semester. Intended for STS majors and minors, but open to others. Prerequisite: STS 11 or consent of program director. *Professor Cutcliffe*

### **STS 391-10 Honors Thesis (ND) 1 credits CRN 43903**

Preparation for honors research thesis (STS 392). Identification of topic, preliminary compilation of source materials, and preparation of a proposal. Program permission required. *Professor Cutcliffe*

### **STS, HMS, HIST 397-10 Social History of Medicine in Early Modern Europe (HU) 4 credits CRN 49031**

This course introduces students to methodologies used in the social history of medicine by focusing on a period that experienced both scientific revolution and repeated plague outbreaks. Seminars analyze the national, gendered, and economic implications of medical advances across 1500-1800 and consider patient narratives, household remedy books, and surgical manuals. Students learn basic archival training and join a field trip to view rare books at The College of Physicians of Philadelphia. *Professor DiMeo*  
W / 1:10 - 4:00 p.m.

## STS Core courses

### **HIST 007-010 Technology in American Industrial Age (SS) 4 credits CRN 49389**

Traces the development of American technology from the preindustrial colonial era until America's emergence as the world's leading industrial power. The interactions between technology and culture, society, politics, and the economy will also be addressed. *Professor Smith*  
M, W, F / 9:10 – 10:00 a.m.

### **POLS 115 -010 Technology as Politics (ND) 4 credits CRN 49158**

Relationship of technology and technological change with politics and public policy. Review of theories of political significance of technology, including technological determinism, technology assessment, technological progress and appropriate technology. Specific issues in technology with emphasis on U.S. *Professor Wurth*  
T, R / 9:20 – 10:35 a.m.

### **PHIL 128-010 Philosophy of Science (HU) 4 credits CRN 49274**

Introduction to the structure and methods of scientific investigation. The nature of explanation, confirmation, and falsification. Scientific progress: What is it? Would it be suffocated by obedience to completely rational methods? *Professor Goldman*  
T, R / 10:45 – 12 p.m.

## STS Elective Courses

- EES/ES/GCP 002 Introduction to Environmental Science (NS) 3 credits; Professor Sahagian**  
EES 002-010, CRN 45777  
ES 002-010, CRN 45778  
GCP 002-010, CRN 46592  
T, R / 2:35 – 3:50 p.m.
- EES/ES 004 Science of Environmental Issues (NS) 1 credit; Professor Anastasio**  
EES 004-010, CRN 43298      EES 004-011, CRN 43299      EES 004-012, CRN 43300  
ES 004-010, CRN 44510      ES 004-011, CRN 44511      ES 004-012, CRN 44512  
M / 11:10 – 12:25 p.m.      W / 11:10 – 12:25 p.m.      F / 1:10 – 2:25 p.m.
- HIST 007 Technology in American Industrial Age (SS) 4 credits - CRN 49389; Professor Smith**  
M, W, F / 9:10 – 10:00 a.m.
- HIST/ES 315 American Environmental History (SS) 3-4 credits; Professor Cutcliffe**  
HIST 315-010, CRN 49403      HIST 315-011, CRN 49405  
ES 315-010, CRN 49404      ES 315-011, CRN 49532  
*Undergraduates only*      *Graduate students only*  
T, R / 1:10 – 2:25 p.m.
- JOUR/ES 125 Environment, the Public and the Mass Media (SS) 4 credits; Professor Friedman**  
JOUR 125-010, CRN 46352  
ES 125-010, CRN 46353  
T, R / 10:45 – 12:00 p.m.
- PHIL 128 Philosophy of Science (HU) 4 credits - CRN 49274; Professor Goldman**  
T, R / 10:45 – 12:00 p.m.,
- POLS/ES 105 Environmental Policy & Planning (SS) 4 credits; Professor Holland**  
POLS 105-010, CRN 43364  
ES 105-010, CRN 43363  
M, W / 12:45 – 2:00 p.m.
- POLS 115 Technology as Politics (ND) 4 credits - CRN 49158; Professor Wurth**  
T, R / 9:20 – 10:35 a.m.
- SSP/HMS 160 Medicine and Society (SS) 4 credits; Professor Lasker**  
SSP 160-010, CRN 42926  
HMS 160-010, CRN 45983  
T, R / 9:20 – 10:35 a.m.