



Science, Technology and Society

2016 Spring Course Offerings

Director: Professor Steve Cutcliffe

Declaration forms are available in the Office of Interdisciplinary Programs: 31 Williams Hall, Suite 101
For more information visit STS website sts.cas2.lehigh.edu

CORE COURSES

STS, STS 124-10 Politics of Science (SS) 4 credits

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.

PHIL 128-10 Philosophy Of Science (HU) 4 credits

Science obviously works, and newer theories surely are better than the theories they replace, but why does science work, how does it work, and in what sense is it progressive? Is science a revelation of reality, or an account of evolving human experience? Are scientists rational? Is scientific reasoning logical? This course surveys the wide range of 20th century responses to these surprisingly elusive, and surprisingly still open, questions. **Professor Bliss** M, W; 11:10 - 12:25 p.m.

STS 381-10 Senior Seminar (SS) 4 credits

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. *Instructor permission required.* **Professor Cutcliffe**

ELECTIVE COURSES

ES, EES 004-61 The Science of Environmental Issues (NS) 1 credit

Section 61 - F; 1:10 - 2:25 p.m.

Section 62 - 11:10 - 12:25 p.m.

Section 63 - M; 11:10 - 12:25 p.m.

Analysis of current environmental issues from a scientific perspective. The focus of the course will be weekly discussions based on assigned readings. Pre- or co-requisite: introductory-level course in EES. **Professor Berti**

STS, MLL, ASIA 097-10 Science & Technology in Traditional China (HU) CBE Global 4 credits

This course is an interdisciplinary study on exploring traditional technologies developed over thousands of years in China. The course is designed for students who are interested in the history of science and technology, particularly in cross-culture comparisons of traditional Western and Eastern craft techniques. No knowledge of Chinese is required. Although during the past 5000 years there have been many inventions in China that impacted world history (e.g., gunpowder, the compass, moveable type print), in the class the following aspects of traditional Chinese crafts and technologies are reviewed in details: Unit 1 of Chinese traditional architecture, Unit 2 of Silk and the Silk Road, Unit 3 of Ceramic and Metallurgy, and Unit 4 of Paper making and Chinese calligraphy. **Professor Wang** M, W; 12:45 - 2:00 p.m.

ARCH 107-10 History of American Architecture (HU) 4 credits

Survey of American building from European colonization to the present. **Professor Thomas** T, R; 1:10 - 4:00 p.m.

STS, HMS, HIST 118-10 History of Modern Medicine (HU) 4 credits

Introduction to Western medical history from the 18th century to the present day. Students will explore patient/practitioner relationships, examine changing ideas concerning health, sickness, and disease, chart changes in hospital care and medical education, and tackle topics such as eugenics, medical experimentation, and health insurance.

Professor Smith M, W; 12:45 - 2:00 p.m.

STS 181 Independent Study (HU / SS) 1-4 credits *Instructor permission required.*

ARCH 210-10 20th Century Architecture (HU) 4 credits

History and theories of modern and contemporary architecture. Analysis of buildings, architects, theories and manifestos from the early 20th century to the present. **Professor Jung** T, R; 9:30 - 10:35 a.m.

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

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 297-10 Research Seminar in Technology Studies (SS) WI (Writing Intensive) 4 credits

Research seminar on technology and society issues. Students research specific topics of their choice; class discussion on individual research and common readings. Designed for STS majors and minors but open to all students by permission of the instructor. *Open to declared STS majors and minors, all others by permission of the instructor* **Professor Cutcliffe** M, W; 11:10 - 12:25 p.m.

SOC 302-10 The Sociology Of Cyberspace (SS) 4 credits

An examination of social life on the Internet and the World Wide Web. Topics may include sociocultural and psychological aspects of communication in cyber-environments (e.g., email, chat rooms, news groups, MUDS, etc.), interpersonal relationships and group development, the nature of community, the politics of cyberspace (control and democracy), privacy and ethics, and economic dimensions. Examination of past and current case studies. **Professor Stanlick** T, R; 9:20 - 10:35 a.m.

ES, IR 343-10 Comparative Environmental Law & Policy (SS) 4 credits

This course studies the different ways in which domestic legal systems handle the regulation of humanity's relationship to the natural world. The first part of the course concentrates on comparative law that examines the evolution of distinct types of legal systems from their origins in the ancient world. The second part of the course specifically and comparatively examines environmental law as it has developed in Canada, China, the European Union and the United States. Ranges of alternatives for environmental law and policy as practiced in various parts of the world will be explored. **Professor Gillroy** T, 4:10 - 7:00 p.m.

POLS, ES 375-10 Seminar: Green Polity (SS) 4 credits

Development of guidelines and applications for public policy and political action directed toward environmental sustainability and political feasibility. Focus on problem-solving and policy design, connecting sustainable environmental goals with workable and responsive institutional designs.

Professor Wurth M, W; 11:10 - 12:25 p.m.

STS 392-10 Honors Thesis (Spring) (ND) 3 credits

Directed undergraduate research thesis required of students who apply and qualify for graduation with program honors. Prerequisite: STS 391, or concurrent with STS 392. *Instructor permission required.* **Professor Cutcliffe**