**Undergraduate Subjects**

**Tier I Subjects**

**STS.001 Technology in American History**
Prereq: None
U (Fall)
3-0-9 units. HASS-H

A survey of America’s transition from a rural, agrarian, and artisan society to one of the world’s leading industrial powers. Treats the emergence of industrial capitalism: the rise of the factory system; new forms of power, transport, and communication; the advent of the large industrial corporation; the social relations of production; and the hallmarks of science-based industry. Views technology as part of the larger culture and reveals innovation as a process consisting of a range of possibilities that are chosen or rejected according to the social criteria of the time.

*M. R. Smith*

**STS.002 Finance and Society**
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-S; CI-H

Examines finance as a social technology intended to improve economic opportunity by moving capital to where it is most needed. Surveys the history of modern finance, from medieval Italy to the Great Depression, while addressing credit, finance and state (and imperial) power, global financial interconnection, and financial crises. Explores modern finance (since about 1950) from a variety of historical and social-scientific perspectives, covering quant finance, financialization, the crisis of 2007-2008, and finance in the digital age. Enrollment limited.

*W. Deringer*

**STS.003 Ancient Greeks to Modern Geeks: A History of Science**
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H; CI-H

Covers the development of major fields in the physical and life sciences, from 18th-century Europe through 20th-century America. Examines ideas, institutions, and the social settings of the sciences, with emphasis on how cultural contexts influence scientific concepts and practices.

*W. Deringer, D. I. Kaiser*

**STS.004 Intersections: Science, Technology, and the World**
Prereq: None
U (Fall)
3-0-9 units. HASS-H

Exposes students to multidisciplinary studies in Science, Technology, and Society (STS), using four case studies to illustrate a broad range of approaches to basic principles of STS studies. Case studies vary from year to year, but always include a current MIT event. Other topics are drawn from legal and political conflicts, and arts and communication media. Includes guest presenters, discussion groups, field activities, visual media, and a practicum style of learning. Enrollment limited.

*D. Fitzgerald*

**STS.005[J] Data and Society**
Same subject as 11.155[J], IDS.057[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H

Introduces students to the social, political, and ethical aspects of data science work. Designed to create reflective practitioners who are able to think critically about how collecting, aggregating, and analyzing data are social processes and processes that affect people.

*E. Medina, S. Williams*

**STS.006[J] Bioethics**
Same subject as 24.06[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-H; CI-H

See description under subject 24.06[J].

*R. Scheffler*
STS.008 Technology and Experience
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-S; CI-H

Introduces the “inner history” of technology: how it affects intimate aspects of human experience from sociological, psychological and anthropological perspectives. Topics vary, but may include how the internet transforms our experience of time, space, privacy, and social engagement; how entertainment media affects attention, creativity, aesthetics and emotion; how innovations in wearable and textile technologies reshape notions of history and identity; how pharmaceuticals reshape identity, mood, pain, and pleasure. Includes in-class discussion of readings, short written and multimedia assignments, final project. Enrollment limited.

STS.009 Evolution and Society
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-H; CI-H

Provides a broad conceptual and historical introduction to scientific theories of evolution and their place in the wider culture. Embraces historical, scientific and anthropological/cultural perspectives grounded in relevant developments in the biological sciences since 1800 that are largely responsible for the development of the modern theory of evolution by natural selection. Students read key texts, analyze key debates (e.g. Darwinian debates in the 19th century, and the creation controversies in the 20th century) and give class presentations.

J. Durant, R. Scheffler

STS.011 Engineering Life: Biotechnology and Society
Prereq: None
Acad Year 2023-2024: U (Fall)
Acad Year 2024-2025: Not offered
3-0-9 units. HASS-H

Provides instruction in the history of humanity’s efforts to control and shape life through biotechnology, from agriculture to gene editing. Examines the technologies, individuals and socio-economic systems that are associated with such efforts, as well as the impact that these efforts have on society and science as a whole. Explores these issues with particular attention to the development of the modern biotechnology industry in the Greater Boston area. Includes a field trip.

R. W. Scheffler

STS.012 Science in Action: Technologies and Controversies in Everyday Life
Prereq: None
U (Fall)
3-0-9 units. HASS-S

Explores a range of controversies about the role of technology, the nature of scientific research and the place of politics in science: debates about digital piracy and privacy, the role of activism in science, the increasingly unclear boundaries between human and non-human, the role of MRIs as courtroom evidence, the potential influence of gender on scientific research, etc. Provides exposure to science in a dynamic relation with social life and cultural ideas. Materials draw from humanities and social science research, ethnographic fieldwork, films and science podcasts, as well as from experimental multimedia. Enrollment limited.

D. Banerjee

STS.014 Embodied Education: Past, Present, Future
Prereq: None
U (Fall)
3-0-9 units. HASS-S

Discusses recent scientific and educational research that finds that the human body in motion is a medium for learning. Explores how and why physical education was integrated into the US educational system while remaining separate from academic subjects — and how and why 21st-century institutions might combine the two. Weekly in-lecture labs demonstrate how exercise can inform academic instruction and invite students to create future curricula. Students who enroll in this class may receive both HASS-S credit for it and may enroll to earn two Physical Education and Wellness (PE&W) points. Limited to 20.

J. S. Light, DAPER Instructors

Tier II Subjects

STS.021[J] Science Activism: Gender, Race, and Power
Same subject as WGS.160[J]
Prereq: None
U (Fall)
3-0-9 units. HASS-E

See description under subject WGS.160[J].

E. Bertschinger
**STS.022[J] Gender, Race, and Environmental Justice**  
Same subject as 21A.407[J], 21G.057[J], WGS.275[J]  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Spring)  
3-0-9 units. HASS-S  

Provides an introduction to the analysis of gender in science, technology, and environmental politics from a global perspective. Familiarizes students with central objects, questions, and methods in the field. Examines existent critiques of the racial, sexual and environmental politics at stake in techno-scientific cultures. Draws on material from popular culture, media, fiction, film, and ethnography. Addressing specific examples from across the globe, students also explore different approaches to build more livable environments that promote social justice. Taught in English. Limited to 18.  
*B. Stoetzer*

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**STS.023[J] Science, Gender and Social Inequality in the Developing World**  
Same subject as WGS.226[J]  
Prereq: None  
Acad Year 2023-2024: U (Spring)  
Acad Year 2024-2025: Not offered  
3-0-9 units. HASS-H  

See description under subject WGS.226[J].  
*A. Sur*

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**STS.025[J] Making the Modern World: The Industrial Revolution in Global Perspective**  
Same subject as 21H.285[J]  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Spring)  
3-0-9 units. HASS-H  

Global survey of the great transformation in history known as the "Industrial Revolution." Topics include origins of mechanized production, the factory system, steam propulsion, electrification, mass communications, mass production and automation. Emphasis on the transfer of technology and its many adaptations around the world. Countries treated include Great Britain, France, Germany, the US, Sweden, Russia, Japan, China, and India. Includes brief reflection papers and a final paper.  
*M. R. Smith*

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**STS.026 History of Manufacturing in America**  
Subject meets with STS.425  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Spring)  
3-0-9 units. HASS-H  

Introductory survey of fundamental innovations and transitions in American manufacturing from the colonial period to the mid-twentieth century. Primary emphasis on textiles and metalworking, with particular attention to the role of the machine tool industry in the American manufacturing economy. Students taking graduate version are expected to explore the material in greater depth.  
*M. R. Smith*

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**STS.027[J] The Civil War and the Emergence of Modern America: 1861-1890**  
Same subject as 21H.205[J]  
Subject meets with STS.427  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Fall)  
3-0-9 units. HASS-H  

Using the American Civil War as a baseline, considers what it means to become “modern” by exploring the war’s material and manpower needs, associated key technologies, and how both influenced the United States’ entrance into the age of “Big Business.” Readings include material on steam transportation, telegraphic communications, arms production, naval innovation, food processing, medicine, public health, management methods, and the mass production of everything from underwear to uniforms – all essential ingredients of modernity. Students taking graduate version complete additional assignments.  
*M. R. Smith*

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**STS.028 Seven Wonders of the Engineering World**  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Spring)  
3-0-9 units. HASS-H  

Uses case studies to take a broad-ranging look at seven major engineering achievements in world history. Examines the nature of engineering as a source of knowledge production/application, how it reflects the cultural settings in which it emerges, and how it changes as it enters different cultural and economic settings. Includes weekly reflection papers. Achievements covered vary from term to term. Limited to 20.  
*M. R. Smith*
STS.030 Forensic History: Problem Solving into the Past
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S

Explores new pathways to use the latest science and technologies to understand the past. Working like detectives, students draw on research methods from such fields as climate science, geology, molecular biology, proteomics, DNA testing, carbon dating and big data analysis to invent their own forensic historical research techniques. They also study new narrative forms to accompany novel research techniques. Instruction and practice in oral and written communication provided. Enrollment limited.
K. Brown

STS.031[J] Environment and History
Same subject as 12.386[J], 21H.185[J]
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S; CI-H

See description under subject 21H.185[J]. Enrollment limited.
K. Brown, S. Solomon

STS.032 Energy, Environment, and Society
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H

Uses a problem-solving, multi-disciplinary, and multicultural approach that takes energy beyond the complex circuits, grids, and kilojoules to the realm of everyday life, with ordinary people as practitioners and producers of energy knowledge, infrastructures, and technologies. The three main objectives are to immerse students in the historical, cultural, multi-cultural, and entrepreneurial aspects of energy across the world to make them better energy engineers; to introduce them to research and analytical methods; and to deploy these methods and their various skills to solve/design a solution, in groups, to a specific energy problem chosen by the students. Each cohort tackles a different energy problem. Provides instruction on how to be active shapers of the world and to bring students' various disciplinary skills and cultural diversity into dialogue as conceptual tools for problem-solving. Enrollment limited.
C. Mavhunga

STS.033[J] People and the Planet: Environmental Histories and Engineering
Same subject as 11.004[J]
Subject meets with 11.204[J], IDS.524[J]
Prereq: None
U (Fall)
Not offered regularly; consult department
3-3-6 units. HASS-E

See description under subject 11.004[J].
A. Slocum, R. Scheffler, J. Trancik

STS.034 Science Communication: A Practical Guide
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-H; CI-H

Develops students' abilities to communicate science effectively in a variety of real-world contexts. Covers strategies for dealing with complex areas like theoretical physics, genomics and neuroscience, and addresses challenges in communicating about topics such as climate change and evolution. Projects focus on speaking and writing, being an expert witness, preparing briefings for policy-makers, writing blogs, giving live interviews for broadcast, and influencing public dialogue through opinion-editorials. Enrollment limited.
B. Venkataraman

STS.035 Exhibiting Science
Prereq: One CI-H/CI-HW subject and permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
2-2-8 units. HASS-A

Project-based seminar covers key topics in museum communication, including science learning in informal settings, the role of artifacts and interactive exhibits, and exhibit evaluation. Students work on a term-long project, organized around the design, fabrication, and installation of an original multimedia exhibit about current scientific research at MIT. Culminates with the project's installation in the MIT Museum's Mark Epstein Innovation Gallery. Limited to 20; preference to students who have taken STS.034.
J. Durant
**STS.036 Science in American Life: 1920-2020**
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-H

Assesses the place of science in American public life from the 1920s to the present. Takes a historically inflected approach to examine the social relations of science in the modern United States. Examines science and (in turn) religion, warfare, health, education, the environment, and human rights to explore how an international leader in science is also home to some of the developed world’s most persistent forms of “science denialism.” Examples include the denial of evolution, human-induced climate change, and particular medical-scientific aspects of the Covid-19 pandemic.

*J. Durant*

**STS.038 Risky Business: Food Production, Environment, and Health (New)**
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
2-1-9 units. HASS-H

Follows the shifts in food production between small-holder, local production to large-scale industries and back again to "locavore" food production in the 19th and 20th centuries. Tracks how people grew anxious about health risks associated with modern food over time. In a weekly lab, students build a compost production facility and/or a segment of a perennial food forest. Discusses food politics, food security and justice, food sustainability and safety, and first steps in growing one’s own food. Limited to 25.

*K. Brown*

**STS.040 A Global History of Commodities**
Prereq: None
U (Spring)
3-0-9 units. HASS-H; CI-H

Inspires students to think about production chains in ways that reflect their impact on the environment, labor practices, and human health. Examines how commodities connect distant places through a chain of relationships, and link people, e.g., enslaved African producers with middle-class American consumers, and Asian factory workers with Europeans taking a holiday on the beach. Studies how mass production and mass demand for commodities, such as real estate, bananas, rubber, corn, and beef, in the 20th century changed the way people worked, lived, and saw themselves as they adopted new technologies to produce and consume in radically different ways from their parents and grandparents. Assignments include creation of a board game for buying and selling real estate in Boston, a two-minute mini-documentary, and an article on a commodity and country. Limited to 25.

*K. Brown*

**STS.041 Exercise is Medicine: From Ancient Civilizations to Modern Health Care Systems (New)**
Prereq: None
Acad Year 2023-2024: U (Spring)
Acad Year 2024-2025: Not offered
3-0-9 units. HASS-S

Explores the history of exercise in preventing and curing physical and mental illness. Combines readings and discussion with experiential learning. Doing Yoga and Qigong alongside readings on Ayurveda and Traditional Chinese Medicine enables students to viscerally experience concepts in medical history such as *Prana* and *Chi*; activities including Pilates and High Intensity Interval Training deepen students’ understanding of the challenges integrating scientific discovery into everyday life. Students who enroll in this class may receive both HASS-S credit for it and may enroll to earn two Physical Education and Wellness (PE&W) points.

*J. S. Light*
**STS.042** Einstein, Oppenheimer, Feynman: Physics in the 20th Century
Same subject as 8.225
Prereq: None
Acad Year 2023-2024: U (Spring)
Acad Year 2024-2025: Not offered
3-0-9 units. HASS-H
Explores the changing roles of physics and physicists during the 20th century. Topics range from relativity theory and quantum mechanics to high-energy physics and cosmology. Examines the development of modern physics within shifting institutional, cultural, and political contexts, such as physics in Imperial Britain, Nazi Germany, US efforts during World War II, and physicists' roles during the Cold War. Enrollment limited.
*D. I. Kaiser*

**STS.043** Technology and Self: Science, Technology, and Memoir
Subject meets with STS.443
Prereq: None
Acad Year 2023-2024: U (Spring)
Acad Year 2024-2025: Not offered
2-0-7 units. HASS-S
Focuses on the memoir as a window onto the relationship of creative people (scientists, engineers, designers, and others) to their work. Examines how class, race, ethnicity, family history, and trauma shape the person who shapes artifacts, experiments, and ideas. Readings explore the connection between material culture, identity, and personal development. Offers the opportunity, if desired, to examine personal experiences and write memoir fragments. Students taking graduate version write a longer final paper. Limited to 15; no listeners.
*S. Turkle*

**STS.046** The Science of Race, Sex, and Gender
Same subject as 21A.103, WGS.225
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S
See description under subject WGS.225.
*A. Sur*

**STS.047** Quantifying People: A History of Social Science
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-S
Historical examination of the quest to understand human society scientifically. Focuses on quantification, including its central role in the historical development of social science and its importance in the 21st-century data age. Covers the political arithmetic of the 17th century to the present. Emphasizes intensive reading of primary sources, which represent past attempts to count, calculate, measure, and model many dimensions of human social life (population, wealth, health, happiness, intelligence, crime, deviance, race). Limited to 25.
*W. Deringer*

**STS.048** African Americans in Science, Technology, and Medicine
Prereq: None
U (Spring)
3-0-9 units. HASS-H
A survey of the contributions of African Americans to science, technology, and medicine from colonial times to the present. Explores the impact of concepts, trends, and developments in science, technology, and medicine on the lives of African Americans. Examples include the eugenics movement, the Tuskegee Syphilis Experiment, the debate surrounding racial inheritance, and IQ testing.
*K. Manning*
**STS.049 The Long War Against Cancer**  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Fall)  
3-0-9 units. HASS-H; CI-H  
Examines anticancer efforts as a critical area for the formation of contemporary biomedical explanations for health and disease. Begins with the premise that the most significant implications of these efforts extend far beyond the success or failure of individual cancer therapies. Considers developments in the epidemiology, therapy, and politics of cancer. Uses the history of cancer to connect the history of biology and medicine to larger social and cultural developments, including those in bioethics, race, gender, activism, markets, and governance.  
*R. W. Scheffler*

**STS.050 The History of MIT**  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Spring)  
3-0-9 units. HASS-H  
Examines the history of MIT, from its founding to the present, through the lens of the history of science and technology. Topics include William Barton Rogers; the modern research university and educational philosophy; campus, intellectual, and organizational development; changing laboratories and practices; MIT’s relationship with Boston, the federal government, and industry; and notable activities and achievements of students, alumni, faculty, and staff. Includes guest lecturers, on-campus field trips, and interactive exercises. Enrollment limited.  
*D. Douglas*

**STS.051[J] Documenting MIT Communities**  
Same subject as 4.626[J]  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Spring)  
2-0-7 units. HASS-H  
Researches the history and culture of an MIT community to contribute to its documentation and preservation. Through the practice of doing original research, students learn about the history of an MIT community. Provides instruction in the methods historians use to document the past, as well as methods from related fields.  
*E. Medina*

**STS.053 Multidisciplinary Interactive Learning Through Problem-Solving**  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Fall)  
3-0-9 units. HASS-E  
Interdisciplinary problem-solving at the intersection of humanities, science, engineering, and business. Team-taught face-to-face classes at multiple US and African universities connected live via Zoom. Divided into four sections/assessments: US and African histories, cultures, politics, and development relations; HASS as a problem-solving tool; STEM applications to real-life problem-solving; and introduction to summer field-class sites or exchange programs. Goal is to equip students with skills for team-based trans-disciplinary and cross-cultural problem-solving.  
*C. C. Mavhunga*

**STS.055[J] Living Dangerously: Environmental Problems from 1900 to Today**  
Same subject as 12.384[J]  
Prereq: None  
U (Spring)  
3-0-9 units. HASS-H; CI-H  
See description under subject 12.384[J]. Limited to 18.  
*S. Solomon, K. Brown*

**STS.060[J] The Anthropology of Biology**  
Same subject as 21A.303[J]  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: U (Fall)  
3-0-9 units. HASS-S  
See description under subject 21A.303[J].  
*S. Helmreich*

**STS.064[J] DV Lab: Documenting Science through Video and New Media**  
Same subject as 21A.550[J]  
Subject meets with 21A.559  
Prereq: None  
U (Spring)  
3-3-6 units. HASS-A; CI-H  
See description under subject 21A.550[J]. Limited to 12.  
*C. Walley, C. Boebel*
STS.065[J] The Anthropology of Sound
Same subject as 21A.505[J]
Prereq: None
U (Fall)
3-0-9 units. HASS-S
See description under subject 21A.505[J].
S. Helmreich

STS.074[J] Art, Craft, Science
Same subject as 21A.501[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-S
Credit cannot also be received for 21A.509[J], STS.474[J]
See description under subject 21A.501[J].
H. Paxson

STS.075[J] Technology and Culture
Same subject as 21A.500[J]
Prereq: None
U (Fall, Spring)
2-0-7 units. HASS-S
See description under subject 21A.500[J]. Limited to 50.
H. Paxson

STS.080[J] Youth Political Participation
Same subject as 11.151[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H
Surveys youth political participation in the US since the early 1800s. Investigates trends in youth political activism during specific historical periods, as well as what difference youth media production and technology use (e.g., radio, music, automobiles, ready-made clothing) made in determining the course of events. Explores what is truly new about "new media" and reviews lessons from history for present-day activists based on patterns of past failure and success. Some mandatory field trips may occur during class time. Limited to 40.
J. S. Light

STS.081[J] Innovation Systems for Science, Technology, Energy, Manufacturing, and Health
Same subject as 17.395[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
2-0-7 units. HASS-S
Examines science and technology innovation systems, including case studies on energy, computing, advanced manufacturing, and health sectors. Emphasizes public policy and the federal government’s role in that system. Focuses on the US but uses international examples. Reviews foundations of economic growth theory, innovation systems theory, and the basic approaches to science and technology policy. Explores the organization and role of energy and medical science R&D agencies, as well as gaps in those innovation systems. Also addresses the science and technology talent base as a factor in growth, and educational approaches to better support it. Class meets for nine weeks; in the remaining weeks, students work on a final paper due at the end of the term. Limited to 25.
W. B. Bonvillian

STS.082[J] Science, Technology, and Public Policy
Same subject as 17.309[J], IDS.055[J]
Prereq: None
U (Spring)
4-0-8 units. HASS-S; CI-H
Credit cannot also be received for 17.310[J], IDS.412[J], STS.482[J]
See description under subject 17.309[J].
K. Oye, N. Selin

STS.083 Computers and Social Change
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H
Provides instruction on how people have historically connected computers to ideas on social, economic, and political change and how these ideas have changed over time. Based on a series of case studies from different parts of the world. Explores topics such as how computers have intertwined with ideas on work, freedom, governance, and access to knowledge. Limited to 25.
E. Medina
STS.084[J] Social Problems of Nuclear Energy
Same subject as 22.04[J]
Prereq: None
U (Fall)
3-0-9 units. HASS-S

See description under subject 22.04[J]. Limited to 18.

R. S. Kemp

STS.085[J] Foundations of Information Policy
Same subject as 6.4590[J]
Subject meets with STS.487
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-S

See description under subject 6.4590[J]. Enrollment limited.

H. Abelson, M. Fischer, D. Weitzner

STS.086[J] Cultures of Computing
Same subject as 21A.504[J], WGS.276[J]
Prereq: None
U (Spring)
3-0-9 units. HASS-S

See description under subject 21A.504[J].

H. Beltrán

STS.087 Biography in Science
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Fall)
3-0-9 units. HASS-H

An examination of biography as a literary genre to be employed in the history of science. The use of biography in different historical periods to illuminate aspects of the development of science. A critical analysis of autobiography, archival sources, and the oral tradition as materials in the construction of biographies of scientists. Published biographies of scientists constitute the major reading, but attention is given to unpublished biographical sources as well. Comparison is drawn between biography as a literary form in the history of science and in other disciplines.

K. Manning

STS.088 Africa for Engineers
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: U (Spring)
3-0-9 units. HASS-H

Covers historical, cultural, and ethical dimensions of engineering in Africa. Focuses on construction of big projects like cities, hydroelectricity dams, roads, railway lines, ports and harbors, transport and communication, mines, industrial processing plant, and plantations. Explores the contributions of big capital, engineers, politicians, and ordinary people. Emphasizes how local culture, politics, labor, and knowledge affect engineering. Also focuses on environmental and cultural impact assessment. Prepares students who wish to work or study in Africa and the Global South. Enrollment limited.

C. Mavhunga

STS.095, STS.096 Independent Study in Science, Technology, and Society
Prereq: None
U (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

For students who wish to pursue special studies or projects with a member of the Program in Science, Technology, and Society. STS.095 is letter-graded; STS.096 is P/D/F.

Staff

Special Subjects

STS.S20, STS.S21 Special Subject: Science, Technology and Society
Prereq: None
U (Fall, IAP, Spring)
Not offered regularly; consult department
Units arranged
Can be repeated for credit.

Addresses subject matter in Science, Technology and Society that is not offered in the regular curriculum.

Staff
Research

**STS.095, STS.096 Independent Study in Science, Technology, and Society**
Prereq: None
U (Fall, IAP, Spring)
Units arranged [P/D/F]
Can be repeated for credit.

For students who wish to pursue special studies or projects with a member of the Program in Science, Technology, and Society. STS.095 is letter-graded; STS.096 is P/D/F.

**Staff**

**STS.UR Undergraduate Research**
Prereq: None
U (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Undergraduate research opportunities in the STS Program.

**Staff**

**STS.URG Undergraduate Research**
Prereq: None
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Undergraduate research opportunities in the STS Program.

**Staff**

**STS.THT Undergraduate Thesis Tutorial**
Prereq: None
U (Fall, Spring)
Units arranged
Can be repeated for credit.

Definition and early-stage work on thesis project leading to STS.THU. Taken during first term of student's two-term commitment to thesis project. Student works closely with STS faculty tutor. Required of all candidates for an STS degree.

**Staff**

**STS.THU Undergraduate Thesis**
Prereq: STS.THT
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Completion of work of the senior major thesis under the supervision of a faculty tutor. Includes gathering materials, preparing draft chapters, giving an oral presentation of thesis progress to faculty evaluators early in the term, and writing and revising the final text. Students meet at the end of the term with faculty evaluators to discuss the successes and limitations of the project. Required of all candidates for an STS degree.

**Staff**

Graduate Subjects

**Required Introductory Subjects**

**STS.250[J] Social Theory and Analysis**
Same subject as 21A.859[J]
Prereq: None
G (Spring)
3-0-9 units

See description under subject 21A.859[J].

**M. Fischer**

**STS.260 Introduction to Science, Technology, and Society**
Prereq: None
G (Fall)
3-0-9 units

Intensive reading and analysis of major works in historical and social studies of science and technology. Introduction to current methodological approaches, centered around two primary questions: how have science and technology evolved as human activities, and what roles do they play in society? Preparation for graduate work in the field of science and technology studies and introduction to research resources and professional standards.

**Staff**
### Advanced Seminars

**STS.310 History of Science**  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Fall)  
3-0-9 units  
Intensive reading and analysis of key works in the history and historiography of science. Introduces students to basic interpretive issues, bibliographic sources, and professional standards. Topics change from year to year.  
*R. W. Scheffler*

**STS.320[J] Environmental Conflict**  
Same subject as 21A.429[J]  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units  
Explores the complex interrelationships among humans and natural environments, focusing on non-western parts of the world in addition to Europe and the United States. Use of environmental conflict to draw attention to competing understandings and uses of “nature” as well as the local, national and transnational power relationships in which environmental interactions are embedded. In addition to utilizing a range of theoretical perspectives, subject draws upon a series of ethnographic case studies of environmental conflicts in various parts of the world.  
*C. Walley*

**STS.330[J] History and Anthropology of Medicine and Biology**  
Same subject as 21A.319[J]  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Fall)  
3-0-9 units  
See description under subject 21A.319[J].  
*S. Helmreich*

**STS.340 Introduction to the History of Technology**  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units  
Introduction to the consideration of technology as the outcome of particular technical, historical, cultural, and political efforts, especially in the United States during the 19th and 20th centuries. Topics include industrialization of production and consumption, development of engineering professions, the emergence of management and its role in shaping technological forms, the technological construction of gender roles, and the relationship between humans and machines.  
*M. R. Smith, D. Mindell*

**STS.360[J] Ethnography**  
Same subject as 21A.829[J]  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Fall)  
3-0-9 units  
Practicum style course introduces students to ethnographic methods and writing in global health research. Organized around interviewing and observational assignments. Students develop a bibliography of anthropological and ethnographic writing relevant to their project, and write a short paper about integrating ethnographic methods into a future research project. Preference to HASTS students; open to others with permission of instructor.  
*M. Fischer*

**STS.412 Quantification**  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units  
Surveys research on quantification, the practice of using numerical data and calculation to analyze, order, and control. Begins by examining historical accounts of the rise of quantitative methods and values since c. 1600. Goes on to explore the dynamics and consequences of quantification across a range of modern domains, including science, politics, governance, health, education, crime, law, economic development, finance, and environmental regulation. Readings drawn from STS, history, anthropology, sociology, and philosophy.  
*W. Deringer*
STS.414[J] Risk, Fortune, and Futurity
Same subject as 21H.984[J]
Prereq: None
Acad Year 2023-2024: G (Spring)
Acad Year 2024-2025: Not offered
3-0-9 units
See description under subject 21H.984[J]. Open to undergraduates with permission of instructor; consult department for details.
W. Deringer, C. Horan

STS.417 STS Seminar on the Global South
Prereq: None
Acad Year 2023-2024: G (Spring)
Acad Year 2024-2025: Not offered
3-0-9 units
Covers Africa and its diaspora, Latin America and the Caribbean, the Middle East, Southeast Asia and Asia, and Oceania. Seeks to explore meanings of science and technology from traditions, experiences, and literatures of these regions; to understand encounters and outcomes of endogenous and inbound ideas, artifacts, and practice; and to engage European and North American science, technology, and society (STS) in dialogue with these literatures. Provides a global view of STS in an increasingly interconnected world. Focuses on peoples of the Global South as innovative intellectual agents, not just victims of technology or its appropriators.
D. Banerjee

STS.419 Global STS: Ethnography, Literature, and Film
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Going beyond issues of brain drain and brain circulation, explores how contemporary science and technology innovations look from, and are being created in, parts of the world other than the US and Europe. Uses films, novels, and artworks to think across disciplinary boundaries and the impact of science and technology on social worlds (as well as the social worlds of scientists and engineers). Open to upperclassmen with permission of instructor.
M. Fischer

STS.421 Graduate Super-Seminar on Global South Cosmologies and Epistemologies
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Team-taught subject that centers Global South cosmologies and epistemologies marginalized by colonization, slavery, and racism across the world. Explores how different societies make sense of and develop knowledges of the physical and animate world, and what it means to be human(e) within it. Opens up trans-hemispheric conversations between constituencies that seldom talk to each other, each bringing its ways of seeing, thinking, knowing, and doing to the matrix to mutually inform one another. Goal is to build qualitative — not just quantitative — diversity (i.e., diversity as method of learning and thinking).
C. C. Mavhunga

STS.424[J] Race, History, and the Built Environment
Same subject as 11.244[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
See description under subject 11.244[J]. Limited to 14 students.
Erica James

STS.425 History of Manufacturing in America
Subject meets with STS.026
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Introductory survey of fundamental innovations and transitions in American manufacturing from the colonial period to the mid-twentieth century. Primary emphasis on textiles and metalworking, with particular attention to the role of the machine tool industry in the American manufacturing economy. Students taking graduate version are expected to explore the material in greater depth.
M. R. Smith
STS.427 The Civil War and the Emergence of Modern America: 1861-1890
Subject meets with 21H.205[J], STS.027[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Using the American Civil War as a baseline, considers what it means to become "modern" by exploring the war's material and manpower needs, associated key technologies, and how both influenced the United States' entrance into the age of "Big Business." Readings include material on steam transportation, telegraphic communications, arms production, naval innovation, food processing, medicine, public health, management methods, and the mass production of everything from underwear to uniforms— all essential ingredients of modernity. Students taking graduate version complete additional assignments.
M. R. Smith

STS.430 Multi-Species Histories of Plant People, Wild and Cultivated
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Spring)
3-0-9 units
Examines how centering plants changes our understanding of what it means to be human. Considers how, in response to the naming of the Anthropocene and anxieties over ecological crises, researchers in various fields have turned to plants as central players. Using this as a starting point, explores how researchers have described and re-calibrated relations among plants, humans, and environment, between life and non-life, action and being, subjectivity and autonomy in ways that radically altered ruling epistemologies in a range of disciplines. Looks at how philosophers, farmers, foresters, eco-critics, geographers, botanists, and popular science writers adapted research questions and narratives to incorporate not only plant uses, but plant intelligence and sentience.
K. Brown

STS.432[J] Narrating the Anthropocene: Understanding a Multi-Species Universe (New)
Same subject as 21H.990[J]
Prereq: None
Acad Year 2023-2024: G (Fall)
Acad Year 2024-2025: Not offered
3-0-9 units
Examines human concern about the planet and how that fixation shapes concepts of time & space, knowledge-production, understandings of what it means to be human and non-human, as well as trends in scholarship, art, culture & politics. Indexes the way numerous actors and institutions came to understand, debate & narrate the Anthropocene, a geological epoch defined by human-induced climate change. Explores how it as a concept has opened up new ways of understanding relations within the planet, including care, accountability & multi-species mutualism. Considers narrative registers as well, how scholars, writers, artists & working people narrate the Anthropocene. Students undertake an original project in research &/or experimental narrative forms inspired by the reading. Limited to 12.
K. Brown, M. Black

STS.436 Cold War Science
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Examines the history and legacy of the Cold War on science and the environment in the US and the world. Explores scientists’ new political roles after World War II, ranging from elite policy makers in the nuclear age to victims of domestic anti-Communism. Also examines the changing institutions in which various scientific fields were conducted during the postwar decades, investigating possible epistemic effects on forms of knowledge. Subject closes by considering the places of science in the US during the post-Cold War era.
K. Brown, D. I. Kaiser
### STS.441 Technology and Self: Technology and Conversation

**Prereq:** None  
**Acad Year 2023-2024:** Not offered  
**Acad Year 2024-2025:** G (Fall)  
2-0-10 units

Explores the relationship between technology and conversation, with an emphasis on conversation in our digital age when so many say they would rather text than talk. Topics center on the psychology of online life, such as the way in which we both share and withhold information about the self. Discussion about the ways new kinds of online conversation are playing out in education, the workplace, and in families and what the changes in conversation mean for collaboration, innovation, and leadership. Readings include works in history, literature, anthropology, psychology, and linguistics. Open to undergraduates by permission of instructor. Limited to 15; no listeners.

*S. Turkle*

### STS.443 Technology and Self: Science, Technology, and Memoir

**Subject meets with STS.043**  
**Prereq:** Permission of instructor  
**Acad Year 2023-2024:** G (Spring)  
**Acad Year 2024-2025:** Not offered  
2-0-7 units

Focuses on the memoir as a window onto the relationship of creative people (scientists, engineers, designers, and others) to their work. Examines how class, race, ethnicity, family history, and trauma shape the person who shapes artifacts, experiments, and ideas. Readings explore the connection between material culture, identity, and personal development. Offers the opportunity, if desired, to examine personal experiences and write memoir fragments. Students taking graduate version write a longer final paper. Limited to 15; no listeners.

*S. Turkle*

### STS.444 Technology and Self: Things and Thinking

**Subject meets with STS.044**  
**Prereq:** Permission of instructor  
**Acad Year 2023-2024:** G (Spring)  
**Acad Year 2024-2025:** Not offered  
2-0-7 units

Explores emotional and intellectual impact of objects. The growing literature on cognition and “things” cuts across anthropology, history, social theory, literature, sociology, and psychology and is of great relevance to science students. Examines the range of theories, from Mary Douglas in anthropology to D.W. Winnicott in psychoanalytic thinking, that underlies “thing” or “object” analysis. Students taking graduate version complete additional assignments. Limited to 15; no listeners.

*S. Turkle*

### STS.454 Museums, Science and Technology

**Prereq:** Permission of instructor  
**Acad Year 2023-2024:** Not offered  
**Acad Year 2024-2025:** G (Spring)  
3-0-9 units

Examines science, technology and museums. Includes regular readings and discussions about the evolution of museums of science and technology from (roughly) 1800 to the present. Students undertake special projects linked to the MIT Museum’s re-location to a new building under construction in Kendall Square. Students act as informal consultants to the MIT Museum, offering proposals for innovative elements that will be seriously considered for inclusion in the new Museum.

*J. Durant*

### STS.458 Science, Technology, and Human Rights

**Prereq:** None  
**Acad Year 2023-2024:** Not offered  
**Acad Year 2024-2025:** G (Fall)  
3-0-9 units

Explores the relationship of science and technology to ideas about human rights over time, including how science and technology have been mobilized historically in the defense of human rights and to assist in the pursuit of truth and justice after atrocity. Discusses literature in history, anthropology, law, and related fields to address how science and technology have historically shaped understandings of human rights and the ways that human rights frameworks have shaped the creation and use of scientific and technological capabilities.

*E. Medina*

### STS.461 History and Social Study of Computing

**Prereq:** None  
**Acad Year 2023-2024:** Not offered  
**Acad Year 2024-2025:** G (Spring)  
3-0-9 units

Examines the history and social study of computers. Introduces students to the core and canonical literature in this area while also providing the opportunity to read and discuss more recent works from multiple disciplines.

*E. Medina*
**STS.462 Social and Political Implications of Technology**  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units

Historical and contemporary studies are used to explore the interaction of technology with social and political values. Emphasis on how technological devices, structures, and systems influence the organization of society and the behavior of its members. Examples drawn from the technologies of war, transportation, communication, production, and reproduction.  
* M. R. Smith

**STS.463[J] Technocracy**  
Same subject as 11.461[J]  
Prereq: None  
G (Fall)  
Not offered regularly; consult department  
3-0-9 units

Survey of the history of efforts to apply scientific methods and technological tools to solve social and political problems, with a focus on the United States since 1850. Topics include: city planning, natural resource management, public education, economic development, quantification and modeling in the social and policy sciences, technology transfer, and political economies of expertise.  
* J. S. Light

**STS.464 Computing from the Global South**  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units

Examines the rise and development of computing technologies in the global south. Surveys the effects of decolonization in the mid-twentieth century on the imagination of computational technologies in places such as South America, Africa, and Asia. Covers the failures and defeats of postcolonial projects when faced with the challenge of asymmetric access to global markets and capital. Identifies contemporary forms of resistance and imaginations of innovation that still endure and flourish in the global south, challenging perspectives from the global north.  
* D. Banerjee

**STS.465[J] Research Seminar on Technology and the Work of the Future**  
Same subject as 11.652[J]  
Prereq: None  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units

Examines the past, present and future of work from an interdisciplinary perspective, drawing from the humanities, social sciences, and cognitive science and engineering. Integrates perspectives from history, philosophy, sociology, economics, management, political science, brain and cognitive science and other relevant literatures, creating a solid foundation from which to interpret current public discourse on the subject. Discussion focuses primarily on the US; comparative perspectives from other countries incorporated into discussions and analysis. Limited to 15.  
* D. Mindell, E. B. Reynolds

**STS.467[J] The History of Aviation**  
Same subject as 16.707[J]  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Spring)  
3-0-9 units

Reading course in the history of aviation, focusing on science and technology and cultural and political context. Themes include: the science of aeronautics, pilots and piloting, control systems and electronics, engineering epistemology, infrastructure, industry, government and politics, evolution of aeronautics research, culture and experience, automation and autonomy, role of MIT, literature and film. Case studies of specific systems and engineering projects. Emphasis is on book-length texts, close reading, historical methods of analyzing technological change. Study of social and political dimensions of engineering projects, examination of aviation institutions. Students prepare weekly response papers to readings, make extended presentations to class twice per semester, and submit a final research paper.  
* D. Mindell

**STS.468[J] Entrepreneurship in Aerospace and Mobility Systems**  
Same subject as 16.445[J]  
Prereq: Permission of instructor  
Acad Year 2023-2024: Not offered  
Acad Year 2024-2025: G (Fall)  
3-0-9 units

See description under subject 16.445[J].  
* D. A. Mindell
STS.471[J] Engineering Apollo: The Moon Project as a Complex System
Same subject as 16.895[J]
Prereq: None
Acad Year 2023-2024: G (Fall)
Acad Year 2024-2025: Not offered
4-0-8 units
Detailed technical and historical exploration of the Apollo project to fly humans to the moon and return them safely to Earth as an example of a complex engineering system. Emphasizes how the systems worked, the technical and social processes that produced them, mission operations, and historical significance. Guest lectures by MIT-affiliated engineers who contributed to and participated in the Apollo missions. Students work in teams on a final project analyzing an aspect of the historical project to articulate and synthesize ideas in engineering systems.

D. Mindell

STS.474[J] Art, Craft, Science
Same subject as 21A.509[J]
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Credit cannot also be received for 21A.501[J], STS.074[J]
See description under subject 21A.509[J].

H. Paxson

Same subject as 21W.820[J]
Prereq: 21H.991
Acad Year 2023-2024: G (Spring)
Acad Year 2024-2025: Not offered
3-0-9 units
Examination of different “voices” used to consider issues of scientific, technological, and social concern. Students write frequently and choose among a variety of non-fiction forms: historical writing, social analysis, political criticism, and policy reports. Instruction in expressing ideas clearly and in organizing a thesis-length work. Reading and writing on three case studies drawn from the history of science; the cultural study of technology and science; and policy issues.

K. Manning

STS.482[J] Science, Technology, and Public Policy
Same subject as 17.310[J], IDS.412[J]
Prereq: Permission of instructor
G (Spring)
4-0-8 units
Credit cannot also be received for 17.309[J], IDS.055[J], STS.082[J]
See description under subject 17.310[J].

K. Oye, N. Selin

STS.487 Foundations of Information Policy
Subject meets with 6.4590[J], STS.085[J]
Prereq: Permission of instructor
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
3-0-9 units
Studies the growth of computer and communications technology and the new legal and ethical challenges that reflect tensions between individual rights and societal needs. Topics include computer crime; intellectual property restrictions on software; encryption, privacy, and national security; academic freedom and free speech. Students meet and question technologists, activists, law enforcement agents, journalists, and legal experts. Instruction and practice in oral and written communication provided. Students taking graduate version complete additional assignments. Enrollment limited.


Special Subjects

STS.591 Special Subject: Science, Technology and Society
Prereq: None
Acad Year 2023-2024: G (Fall)
Acad Year 2024-2025: Not offered
Units arranged
Can be repeated for credit.

Addresses a special topic in Science, Technology and Society which is not offered in the regular curriculum.

Staff

STS.592 Special Subject: Science, Technology and Society
Prereq: None
Acad Year 2023-2024: Not offered
Acad Year 2024-2025: G (Fall)
Units arranged
Can be repeated for credit.

Addresses subject matter in Science, Technology and Society that is not offered in the regular curriculum.

Staff
Research and Teaching

**STS.800 Teaching Science, Technology and Society**
Prereq: None  
G (Fall, Spring)  
Units arranged [P/D/F]  
Can be repeated for credit.

For qualified graduate students serving as either a teaching assistant or instructor for subjects in Science, Technology and Society (STS). Enrollment limited by availability of suitable teaching assignments.

*Staff*

**STS.840 HASTS Professional Perspective**
Prereq: Permission of advisor  
G (Fall, IAP, Spring, Summer)  
0-1-0 units

Required for doctoral students in the doctoral program in History, Anthropology, and Science, Technology and Society (HASTS) to explore and gain professional perspective through academic, non-profit, government, or industry experiences. Professional perspective options include, but are not limited to, internships, teacher training, professional development for entry into academia, or public academic engagement. For an internship experience, an offer from a company or organization is required prior to enrollment. A written narrative or report is required upon completion of the experience. Proposals subject to departmental approval in consultation with advisor.

*Staff*

**STS.850 Practical Experience in HASTS Fields**
Prereq: None  
G (Fall, IAP, Spring, Summer)  
Units arranged [P/D/F]  
Can be repeated for credit.

For HASTS students participating in curriculum-related off-campus professional internship experiences. Before registering for this subject, students must have an offer letter from a company or organization and must receive written prior approval from their advisor. Upon completion of the experience, students must submit a substantive final report, approved by their advisor. Subject to departmental approval. Consult departmental graduate office. Permission of advisor.

*Staff*

**STS.880 Proposal Writing in HASTS**
Prereq: Permission of instructor  
G (Fall, Spring)  
Units arranged [P/D/F]  
Can be repeated for credit.

For students in the doctoral program in History, Anthropology, and Science, Technology and Society (HASTS) who are working on their dissertation proposal and/or research grant proposal program requirement. Work is done in consultation with the student’s advisor, in accordance with the guidelines in the HASTS Student Handbook. Restricted to HASTS PhD students.

*Staff*

**STS.901-STS.904 Independent Study in Science, Technology, and Society**
Prereq: Permission of instructor  
G (Fall, Spring)  
Units arranged  
Can be repeated for credit.

For students who wish to pursue special studies or projects at an advanced level with a faculty member of the Program in Science, Technology, and Society.

*Staff*

**STS.THG Graduate Thesis**
Prereq: Permission of instructor  
G (Fall, IAP, Spring, Summer)  
Units arranged  
Can be repeated for credit.

Program of graduate research leading to the writing of a PhD thesis, to be arranged by the student with an appropriate MIT faculty member, who is the thesis supervisor.

*Staff*