SCIENCE & TECHNOLOGY STUDIES (STS)

College of Letters & Science

STS 001 – Introduction to Science, Technology & Medicine Studies (4 units)
Course Description: History, philosophy, sociology, politics, and cultural studies of science, technology, and medicine. Emphasis on a broad range of perspectives.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s).
Grade Mode: Letter.
General Education: Social Sciences (SS); Writing Experience (WE).

STS 002 – Introduction to the History of Science & Technology (4 units)
Course Description: Introduction to topics and methods of the history of science and technology. Emphasis on understanding the role of science and technology in the modern world through a long-term historical perspective.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s).
Cross Listing: HIS 002.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); Scientific Literacy (SL); World Cultures (WC); Writing Experience (WE).

STS 002Y – Introduction to the History of Science & Technology (4 units)
Course Description: Introduction to topics and methods of the history of science and technology. Emphasis on understanding the role of science and technology in the modern world through a long-term historical perspective.
Learning Activities: Lecture 2 hour(s); Discussion 1 hour(s); Web Virtual Lecture 1 hour(s).
Credit Limitation(s): Not open for credit to students who have taken HIS 002 or STS 002.
Cross Listing: HIS 002Y.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); Scientific Literacy (SL); World Cultures (WC); Writing Experience (WE).

STS 011 – Science on Trial: Law, Science, & Technology in the United States (4 units)
Course Description: Relationships among law, technology, and science. Scientific evidence and testimony, biology education, patenting, and sterilization.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); American Cultures, Governance, & History (ACGH).

STS 012 – Epidemics & Society (4 units)
Course Description: Epidemics in world history and the cultural impacts of contagious diseases. The roles of science, medicine, media, and the arts in shaping social conceptions of health and illness.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s).
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); Scientific Literacy (SL); Visual Literacy (VL); World Cultures (WC); Writing Experience (WE).

STS 016 – Sex, Science, & Society (4 units)
Course Description: Survey of the relationship between sex, science, and society in the history of the modern world. Emphasis on the development of scientific ideas about the human body against broader social, cultural, and political trends and from a global viewpoint.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s).
Cross Listing: HIS 016.
Grade Mode: Letter.
General Education: Arts & Humanities (AH); Domestic Diversity (DD); Scientific Literacy (SL); World Cultures (WC); Writing Experience (WE).

STS 032 – Drugs, Science & Culture (4 units)
Course Description: Drugs, politics, science, society in a cultural perspective: emphasis on roles of science, government and the media in shifting attitudes toward alcohol, marijuana, Prozac and other pharmaceuticals; drug laws, war on drugs and global trade in sugar, opium, cocaine.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s).
Cross Listing: ANT 032.
Grade Mode: Letter.
General Education: Social Sciences (SS); Visual Literacy (VL); Writing Experience (WE).

STS 040A – Media History 1, Gutenberg to Oppenheimer (4 units)
Course Description: History of Media to 1945, with particular focus on mechanically reproduced mass media technologies including the printing press, the newspaper, photography, cinema, radio and early computing technology. Analysis of inter-related cultural and political topics.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s), Film Viewing 2 hour(s), Extensive Writing.
Cross Listing: CTS 040A.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); Oral Skills (OL); Visual Literacy (VL); Writing Experience (WE).

STS 040B – Media History 2 1945-Present (4 units)
Course Description: History of media from 1945 to present, with particular focus on the development of the computer, digital network and Internet technologies in the context of other media infrastructures like radio, television and satellite networks. Analysis of inter-related cultural/political topics.
Prerequisite(s): STS 040A.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s), Film Viewing 2 hour(s), Extensive Writing.
Cross Listing: CTS 040B.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); Oral Skills (OL); Visual Literacy (VL); Writing Experience (WE).
ST斯050 — 古代科学 (4学分)
课程描述：研究古希腊和罗马的科学；考虑其社会环境；集中研究物理、医学和生物学的历史，以及天文学、气象学和天体测量学的基本概念。学习活动：讲座3小时，讨论1小时。
交叉列出：CLA 050。
成绩模式：信/无信。
一般教育：人文学科（AH）；世界文化（WC）；写作经验（WE）。

ST斯051 — 古代医学 (4学分)
课程描述：研究古希腊和罗马的医学；生理学，以及科学和社会框架对身体的认识；对古代身体的卫生技术；医学和经济的治疗；医学和经济学。
学习活动：讲座3小时，讨论1小时。互相列出：CLA 051。
成绩模式：信。
一般教育：人文学科（AH）；世界文化（WC）；写作经验（WE）。

ST斯092 — 实习 (1-12学分)
课程描述：工作体验。在所有学科的项目中提供实习经验。
先决条件（S）：同意指导。
学习活动：3-36学时。可以重复。
成绩模式：通过/不通过。
一般教育：社会科学（SS）；国内多样性（DD）；人文学科（AH）；世界文化（WC）；写作经验（WE）。

ST斯098 — 专题研究 (1-5学分)
课程描述：专题研究。
先决条件（S）：同意指导。
学习活动：可变的3-15小时。可以重复。
成绩模式：通过/不通过。
一般教育：社会科学（SS）。

ST斯097 — 专题研究 (1-5学分)
课程描述：专题研究。
学习活动：可变的3-15小时。可以重复。
成绩模式：通过/不通过。
一般教育：社会科学（SS）。

ST斯100 — 科学、技术与医学方法 (4学分)
课程描述：方法论的科学方法研究。在详细案例研究中，不同的历史、哲学、社会、伦理、修辞和其他政治方法分析。先决条件（S）：ST斯020。
学习活动：讲座/讨论3小时，详尽的写作/讨论。
学分限制（S）：仅限两学分，适用于已修ST斯020的学生。
成绩模式：信。
一般教育：社会科学（SS）；科学素养（SL）。

ST斯101 — 数据与社会 (4学分)
课程描述：数据科学中的基本概念。重要性、数据利益相关者和利益，阅读和评估数据的结构，探索数据的分析和可视化，识别知识差距，评估数据的道德。
学习活动：讲座/讨论4学时。成绩模式：信。
一般教育：社会科学（SS）；量化素养（QL）。

ST斯108 — 专利与科技 (4学分)
课程描述：历史和概念框架。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；美国文化、政府、历史（ACGH）；写作经验（WE）。

ST斯109 — 数据与社会：批判性介绍 (4学分)
课程描述：探索科学可视化技术、信息学、模拟。对不同可视化技术的研究，理解其在产生数据时所涉及的工作，评估这些技术的权力和限制，特别是在使用社会计算时。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；视觉素养（VL）；写作经验（WE）。

ST斯110 — 计算、数据与法律 (4学分)
课程描述：对美国法律和政策的影响，以及信息技术的影响。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；美国文化、政府、历史（ACGH）；写作经验（WE）。

ST斯112 — 数据可视化 (4学分)
课程描述：对历史和当代数据的分析和可视化，研究社会和国家的背景。
学时：3学时。
成绩模式：信/无信。
一般教育：社会科学（SS）；国内多样性（DD）；量化素养（QL）。

ST斯099 — 本科特别研究 (1-5学分)
课程描述：本科特别研究。
学时：3-15小时。
成绩模式：通过/不通过。
一般教育：社会科学（SS）。

ST斯108 — 专利与科学 (4学分)
课程描述：专利制度和专利政策。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；美国文化、政府、历史（ACGH）；写作经验（WE）。

ST斯109 — 数据与社会：批判性介绍 (4学分)
课程描述：对数据和视觉化技术的批判性介绍。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；视觉素养（VL）；写作经验（WE）。

ST斯110 — 计算、数据与法律 (4学分)
课程描述：对美国法律和政策的影响，以及信息技术的影响。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；美国文化、政府、历史（ACGH）；写作经验（WE）。

ST斯112 — 数据可视化 (4学分)
课程描述：对历史和当代数据的分析和可视化，研究社会和国家的背景。
学时：3学时。
成绩模式：信/无信。
一般教育：社会科学（SS）；国内多样性（DD）；量化素养（QL）。

ST斯050 — 古代科学 (4学分)
课程描述：研究古希腊和罗马的科学；考虑其社会环境；集中研究物理、医学和生物学的历史，以及天文学、气象学和天体测量学的基本概念。学习活动：讲座3小时，讨论1小时。交叉列出：CLA 050。
成绩模式：信/无信。
一般教育：人文学科（AH）；世界文化（WC）；写作经验（WE）。

ST斯051 — 古代医学 (4学分)
课程描述：研究古希腊和罗马的医学；生理学，以及科学和社会框架对身体的认识；对古代身体的卫生技术；医学和经济的治疗；医学和经济学。
学习活动：讲座3小时，讨论1小时。交叉列出：CLA 051。
成绩模式：信。
一般教育：人文学科（AH）；世界文化（WC）；写作经验（WE）。

ST斯092 — 实习 (1-12学分)
课程描述：工作体验。在所有学科的项目中提供实习经验。
先决条件（S）：同意指导。
学习活动：3-36学时。可以重复。
成绩模式：通过/不通过。
一般教育：社会科学（SS）；国内多样性（DD）；人文学科（AH）；世界文化（WC）；写作经验（WE）。

ST斯098 — 专题研究 (1-5学分)
课程描述：专题研究。
先决条件（S）：同意指导。
学习活动：可变的3-15小时。可以重复。
成绩模式：通过/不通过。
一般教育：社会科学（SS）。

ST斯097 — 专题研究 (1-5学分)
课程描述：专题研究。
学习活动：可变的3-15小时。可以重复。
成绩模式：通过/不通过。
一般教育：社会科学（SS）。

ST斯100 — 科学、技术与医学方法 (4学分)
课程描述：方法论的科学方法研究。在详细案例研究中，不同的历史、哲学、社会、伦理、修辞和其他政治方法分析。先决条件（S）：ST斯020。
学习活动：讲座/讨论3小时，详尽的写作/讨论。
学分限制（S）：仅限两学分，适用于已修ST斯020的学生。
成绩模式：信。
一般教育：社会科学（SS）；科学素养（SL）。

ST斯101 — 数据与社会 (4学分)
课程描述：数据科学中的基本概念。重要性、数据利益相关者和利益，阅读和评估数据的结构，探索数据的分析和可视化，识别知识差距，评估数据的道德。
学习活动：讲座/讨论4学时。成绩模式：信。
一般教育：社会科学（SS）；量化素养（QL）。

ST斯108 — 专利与科学 (4学分)
课程描述：专利制度和专利政策。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；美国文化、政府、历史（ACGH）；写作经验（WE）。

ST斯109 — 数据与社会：批判性介绍 (4学分)
课程描述：对数据和视觉化技术的批判性介绍。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；视觉素养（VL）；写作经验（WE）。

ST斯110 — 计算、数据与法律 (4学分)
课程描述：对美国法律和政策的影响，以及信息技术的影响。
学时：4学分。
成绩模式：信。
一般教育：社会科学（SS）；美国文化、政府、历史（ACGH）；写作经验（WE）。

ST斯112 — 数据可视化 (4学分)
课程描述：对历史和当代数据的分析和可视化，研究社会和国家的背景。
学时：3学时。
成绩模式：信/无信。
一般教育：社会科学（SS）；国内多样性（DD）；量化素养（QL）。
STS 113 — Business & Technology in the United States: From Electricity to E-Commerce (4 units)
Course Description: Historical introduction to the joint development of business and technology in the United States from the late-19th century to the present day.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); American Cultures, Governance, & History (ACGH); Writing Experience (WE).

STS 114 — The Global Information Age (4 units)
Course Description: Introduction to the global spread of information technologies like computers and smartphones. Special focus on their social, cultural, and commercial impact.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); World Cultures (WC); Writing Experience (WE).

STS 115 — Data Sense & Exploration: Critical Storytelling with Analysis (4 units)
Course Description: Data science and the communication of data insights through critical storytelling. Attention to the historical and social contexts of data analysis, emphasizing narrative, visualization, and exploration. Introduction to the R computing environment for data analysis.
Learning Activities: Lecture/Discussion 3 hour(s), Discussion/Laboratory 1 hour(s).
Grade Mode: Letter.
General Education: Oral Skills (OL).

STS 120 — Religion, Magic & Science (4 units)
Course Description: Religion, magic, and science from the middle ages to the present. Contrast between modern scientific methodology and religious and magical thinking.
Learning Activities: Lecture 3 hour(s), Extensive Writing.
Cross Listing: RST 120.
Grade Mode: Letter.
General Education: Arts & Humanities (AH); Oral Skills (OL); Visual Literacy (VL); World Cultures (WC).

STS 121 — Special Topics in Medical Anthropology (4 units)
Course Description: Introduction to critical medical anthropology. Topics include anthropological analysis of bio-medicine, psychiatry, systems of knowledge and healing, the body, emotions, and clinical encounters in a cross-cultural perspective.
Prerequisite(s): ANT 002 recommended.
Learning Activities: Lecture/Discussion 4 hour(s).
Cross Listing: ANT 121.
Grade Mode: Letter.
General Education: Social Sciences (SS); World Cultures (WC); Writing Experience (WE).

STS 122 — Health & Medical Technologies (4 units)
Course Description: Critical/historical examination of medical technologies: imaging, pharmaceuticals, genetics, implants/devices. Exploration of mutually constitutive relationship between health, medical technologies, social difference (race/gender/class/sexuality).
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); Domestic Diversity (DD).

STS 123 — From Electricity to E-Commerce (4 units)
Course Description: Historical introduction to the joint development of business and technology in the United States from the late-19th century to the present day.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); American Cultures, Governance, & History (ACGH); Writing Experience (WE).

STS 124 — The Global Information Age (4 units)
Course Description: Introduction to the global spread of information technologies like computers and smartphones. Special focus on their social, cultural, and commercial impact.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); World Cultures (WC); Writing Experience (WE).

STS 125 — Data Sense & Exploration: Critical Storytelling with Analysis (4 units)
Course Description: Data science and the communication of data insights through critical storytelling. Attention to the historical and social contexts of data analysis, emphasizing narrative, visualization, and exploration. Introduction to the R computing environment for data analysis.
Learning Activities: Lecture/Discussion 3 hour(s), Discussion/Laboratory 1 hour(s).
Grade Mode: Letter.
General Education: Oral Skills (OL).

STS 126 — Scientific Revolution (4 units)
Course Description: Rise of modern science in Europe, 1500–1750. Transformation of ideas about nature, knowledge, medicine, and technology in the age of Copernicus, Vesalius, Galileo, Descartes, and Newton.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Cross Listing: HIS 136.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); World Cultures (WC).
STS 140 — Science & Race (4 units)
Course Description: Race and racial formations in science, technology, and medicine. History of racial thought in scientific and medical research; colonial and decolonial modes of knowledge production; the racialization of technology; intersectional approaches to technoscience, social justice, environmental justice, and health care equity.
Learning Activities: Lecture 3 hour(s), Discussion 1 hour(s).
Grade Mode: Letter.
General Education: Social Sciences (SS); American Cultures, Governance, & History (ACGH); Domestic Diversity (DD); Oral Skills (OL).

STS 150 — Gender & Science (4 units)
Course Description: Interdisciplinary approach to the relations between gender and science. Topics include the biological and cultural construction of sexual difference, the role of women as practitioners of science, and feminist approaches to science.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); American Cultures, Governance, & History (ACGH); Domestic Diversity (DD); Writing Experience (WE).

STS 151 — Media Theory (5 units)
This version has ended; see updated course, below.
Course Description: Critical and theoretical approaches to the emergence of new technologies since the invention of photography. Examine various approaches to media (formalist, semiotic, structuralist, Frankfurt School, cybernetics, visual and gamer theory).
Learning Activities: Lecture 2 hour(s), Discussion 1 hour(s), Film Viewing 3 hour(s), Extensive Writing.
Cross Listing: CTS 150.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); Oral Skills (OL); Visual Literacy (VL); Writing Experience (WE).

STS 151 — Media Theory (5 units)
Course Description: Critical and theoretical approaches to the emergence of new technologies since the invention of photography. Examine various approaches to media (formalist, semiotic, structuralist, Frankfurt School, cybernetics, visual and gamer theory).
Prerequisite(s): CDM 002 or CDM 003 recommended.
Learning Activities: Lecture 2 hour(s), Discussion 1 hour(s), Film Viewing 3 hour(s), Extensive Writing.
Cross Listing: CDM 151.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); Oral Skills (OL); Visual Literacy (VL); Writing Experience (WE).
This course version is effective from, and including: Winter Quarter 2023.

STS 152 — Sounding Data: Critical Approaches to Sonification (4 units)
Course Description: Critical and creative approaches to auditory data and display in art, science, and technology. Practical introduction to sonification techniques through sound studies and sensory ethnography. Heuristic listening and collaborative sound design.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper/Discussion.
Grade Mode: Letter.
General Education: Social Sciences (SS); Writing Experience (WE).

STS 160 — Ghosts of the Machine: How Technology Rewires our Senses (4 units)
Course Description: Historical, aesthetic and critical approaches to how information technologies produced ghost effects or a sense of terror in response to new media like the photograph, gramophone, film, typewriter, computer, Turing Machine. Focus on technological media transforms sense perception.
Learning Activities: Lecture 3 hour(s), Extensive Writing/Discussion 1 hour(s).
Cross Listing: TCS 160.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); American Cultures, Governance, & History (ACGH); Visual Literacy (VL); Writing Experience (WE).

STS 161 — Time: Mechanism & Measurement (4 units)
Course Description: Cultural concepts of time; units and instruments of time measurement; historical differences in the social organization of time; and time measurement in 20th-century science.
Prerequisite(s): STS 001.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); Writing Experience (WE).

STS 162 — Surveillance Technologies & Social Media (4 units)
Course Description: Study of the ubiquitous presence of CCTV, face recognition software, global tracking systems, biosensors, and data mining practices that have made surveillance part of our daily life. Exploration of the boundary between security and control, information and spying.
Prerequisite(s): STS 020 or TCS 001.
Learning Activities: Lecture 3 hour(s), Film Viewing 3 hour(s), Term Paper.
Cross Listing: CTS 162.
Grade Mode: Letter.
General Education: Social Sciences (SS); Writing Experience (WE).

STS 163 — History of Communication Technologies (4 units)
Course Description: History of communication technologies from the late Middle Ages to the 20th century. Questions of technology, knowledge, power and culture. Particular attention to questions about information and truth.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.
General Education: Social Sciences (SS); Writing Experience (WE).

STS 164 — Writing Science (4 units)
Course Description: Texts and writing practices in the production of scientific knowledge. Surveys the literary structure of scientific arguments; history of scientific genres; rhetoric and semiotics in scientific culture; graphical systems in the experimental laboratory; narratives of science, including science fiction.
Prerequisite(s): STS 001 or ENL 003; or equivalent.
Learning Activities: Lecture/Discussion 3 hour(s), Extensive Writing.
Cross Listing: ENL 164.
Grade Mode: Letter.
General Education: Arts & Humanities (AH); Scientific Literacy (SL); Writing Experience (WE).
STS 165 — Built Environments (4 units)
Course Description: Built environments, which are designed to support forms of life. Their role as carriers of cultural memory and in turning knowledge of nature into social assets. Historical constellations of knowledge, social order, and power.
Learning Activities: Lecture 3 hour(s), Extensive Writing.
Grade Mode: Letter.
General Education: Social Sciences (SS).

STS 172 — Video Games & Culture (4 units)
Course Description: Critical approaches to the study of video games, focusing on formal, historical, and cultural modes of analysis. History of software and hardware in North American and global contexts. Relations of games to society, politics, economics, media, etc.
Prerequisite(s): CDM 072 or ENL 072 recommended.
Learning Activities: Lecture 3 hour(s), Extensive Writing/Discussion 1 hour(s).
Credit Limitation(s): Not open for credit to students who have taken CTS 172 (former course CTS 172).
Cross Listing: CDM 172, ENL 172.
Grade Mode: Letter.
General Education: Arts & Humanities (AH) or Social Sciences (SS); American Cultures, Governance, & History (ACGH); Visual Literacy (VL); Writing Experience (WE).

STS 173 — Science Fiction (4 units)
Course Description: The literary modes and methods of science fiction. Representative texts, authors, and themes of the genre; e.g., time travel, alternative universes, and utopias. Relations of science fiction to science, philosophy, and culture.
Prerequisite(s): STS 001 or ENL 003; or equivalent.
Learning Activities: Lecture 3 hour(s), Extensive Writing.
Cross Listing: ENL 173.
Grade Mode: Letter.
General Education: Arts & Humanities (AH); Writing Experience (WE).

STS 175 — Laboratory Studies Lab (4 units)
Course Description: Hands-on training in Science & Technology Studies fieldwork, interviewing, archival research and data analysis. Review of laboratory studies literature, informed consent procedures, ethics, and care of the data. Individual and group projects possible.
Prerequisite(s): Upper division standing or consent of instructor.
Learning Activities: Discussion/Laboratory 4 hour(s).
Grade Mode: Letter.
General Education: Social Sciences (SS); Writing Experience (WE).

STS 176 — Sociology of Knowledge, Science, & Scientific Knowledge (4 units)
Course Description: Social, cultural, and historical dimensions of knowledge, especially scientific knowledge. Problems, methods, and theory in sociology of scientific knowledge. Laboratory and historical case studies. Scientific and technical knowledge in institutional and organizational contexts.
Prerequisite(s): SOC 001, SOC 002, or SOC 003 recommended.
Learning Activities: Lecture 3 hour(s), Term Paper/Discussion 1 hour(s).
Cross Listing: SOC 176.
Grade Mode: Letter.
General Education: Social Sciences (SS).

STS 180 — Topics in Science & Technology Studies (4 units)
Course Description: In-depth treatment of selected topics in anthropology, history, philosophy, and sociology of science and related fields. Possible topics include science and society, science and power, scientific explanation, technology and culture, theory testing.
Prerequisite(s): Course in Science Technology Studies (STS) or other course-work relevant to topic.
Learning Activities: Term Paper, Seminar 3 hour(s).
Repeat Credit: May be repeated when content varies.
Grade Mode: Letter.
General Education: Social Sciences (SS).

STS 190 — Seminar in Science, Technology & Medicine (4 units)
Course Description: Intensive reading, discussion, research and writing by small groups in selected topics of science, technology, and medicine studies scholarship. Emphasis on individual research projects.
Prerequisite(s): Open to junior and senior Science Technology Studies majors only.
Learning Activities: Lecture/Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.

STS 192 — Internship (1-12 units)
Course Description: Work experience off and on campus in all subject areas offered in the program in Science & Technology Studies under the supervision of a member of the faculty.
Prerequisite(s): Consent of instructor.
Learning Activities: Internship 3-36 hour(s).
Repeat Credit: May be repeated 3 time(s) up to 12 units.
Grade Mode: Pass/No Pass only.

STS 194A — Research in Science & Technology Studies (4 units)
Course Description: Directed reading and research in preparation for a thesis project.
Prerequisite(s): Consent of instructor; senior standing faculty approval recommended.
Learning Activities: Independent Study, Extensive Writing, Tutorial 3 hour(s).
Grade Mode: Letter.
General Education: Social Sciences (SS).

STS 194B — Advanced Research in Science & Technology Studies (4 units)
Course Description: Development of a research thesis, supervised by a faculty member.
Prerequisite(s): STS 194A; consent of instructor; senior standing faculty approval recommended.
Learning Activities: Term Paper, Tutorial 3 hour(s), Independent Study.
Grade Mode: Letter.
General Education: Social Sciences (SS).
STS 195 — Research in Data Studies (4 units)
Course Description: Analysis of real-world data in the form of case studies engaging current issues. Emphasizes teamwork in the identification of problems and sources of relevant data; data cleaning, exploration, analysis, and visualization using R; and interpretation and presentation of results to a variety of stakeholders in oral, visual, and textual formats.
Prerequisite(s): STS 101; or consent of instructor.
Learning Activities: Lecture/Discussion 3 hour(s), Discussion/Laboratory 1 hour(s).
Grade Mode: Letter.
General Education: Social Sciences (SS).

STS 198 — Directed Group Study (1-5 units)
Course Description: Directed group study.
Prerequisite(s): Consent of instructor.
Learning Activities: Variable.
Grade Mode: Pass/No Pass only.

STS 199 — Special Study for Advanced Undergraduates (1-5 units)
Course Description: Special study for advanced undergraduates.
Prerequisite(s): Consent of instructor.
Learning Activities: Variable.
Grade Mode: Pass/No Pass only.

STS 200 — Theories & Methods in Science & Technology Studies (4 units)
Course Description: Theories and methods of Science & Technology Studies as a field of critical and empirical scholarship, and examination of various contexts in which STS has emerged worldwide.
Learning Activities: Seminar 3 hour(s), Term Paper.
Repeat Credit: May be repeated 1 time(s) with consent of instructor.
Grade Mode: Letter.

STS 205 — Contemporary Issues in Science & Technology Studies (4 units)
Course Description: Recent topics, debates, and innovative methods in Science & Technology Studies. Issues may include the governance of technoscience, science and media, data studies, indigenous knowledge, science and globalization, citizen science, new and emerging technologies.
Learning Activities: Discussion 3 hour(s), Term Paper.
Repeat Credit: May be repeated when topic differs.
Grade Mode: Letter.

STS 210 — Digital Technologies: History & Theory (4 units)
Course Description: Introduction to the history and theory of digital technologies. Human-machine interaction, cybernetics, software studies, and global networking.
Learning Activities: Discussion 3 hour(s), Term Paper.
Grade Mode: Letter.

STS 250 — History & Philosophy of Science (4 units)
Course Description: Interdisciplinary seminar in the history and philosophy of science. Focuses on issues such as historiography, methodology, and the conceptual foundations of science.
Prerequisite(s): Graduate standing or consent of instructor.
Learning Activities: Seminar 3 hour(s), Term Paper.
Repeat Credit: May be repeated with consent of instructor.
Grade Mode: Letter.