B.A. in STS (Old Curriculum – Requirements Updated for 13-14)
ONLY AVAILABLE TO STUDENTS WHO DECLARED STS PRIOR TO 9/1/2012

Science, Technology, and Society: Requirements for the B.S. Major

- This form must be drafted, in pencil, before your declaration of STS as your major will be approved in Axess.
- You do not need component signatures of approval to declare, however, the signed version of the form must be returned to the STS office before the end of your declaration quarter.
- You may not double-count one course for two separate component requirements.
- A course is defined as 3 or more units.
- You may not use more than one freshman or sophomore seminar towards your STS degree requirements.
- NOTE: It is your responsibility to update your course plan in the STS Office each quarter if you deviate from your original, approved plan. Unapproved changes may not be approved for graduation.

The STS B.S. major curriculum has two components: Core and Technical Depth. You must obtain a signature of approval from a Stanford Academic Council faculty member for each component – the STS undergraduate advisor will assist you with faculty referrals after you declare.

Component # 1: STS Core

Requirements: successful completion, for a letter grade wherever available, of 8 courses in the following categories:

1. Required Interdisciplinary Foundational Course (1 course):

   STS 1. The Public Life of Science and Technology (5, W)
   or, if previously completed,
   STS 101. Science, Technology, and Contemporary Society or STS 101Q. Technology in Contemporary Society (4, A)

2. Disciplinary Analyses (6 courses):
   ✓ Choose 1 course in each area, at least 3 of which must be upper-level (targeted primarily at juniors and seniors)
   ✓ One of the courses in the STS Core must satisfy the Writing in the Major requirement - indicated with an *asterisk
   ✓ Make sure you check the pre-requisites for the courses you choose!

   Philosophical/Ethical/Aesthetic perspectives (indicate as P on Curriculum Form)
   • ARTHIST 157A. Histories of Photography (4, A) or ARTHIST 158A. History of Photography (4, NO)
   • CLASSART 113 (previously STS 112). Ten Things: An Archaeology of Design (3-5, W)
   • COMM 131. Media Ethics and Responsibility (4-5, NO)
   • COMM 137W. The Dialogue of Democracy (4-5, NO)
   • *CS 181. Computers, Ethics, and Public Policy (4, A/W/S)
   • ENGLISH 176. Science Fiction: Techno Dreams and Nightmares (5, NO)
   • ME 120. History and Philosophy of Design (3, S)
   • ME 214/314. Good Products, Bad Products (3-4, W)
   • *MS&E 197 (previously STS 110). Ethics and Public Policy (5, W)
   • PHIL 60. Introduction to Philosophy of Science (5, A)
   • PHIL 163H. The History of Scientific Methods, Pythagoras to Popper (4, NO)
   • STS 210. Ethics, Science, and Technology (4, NO)

ONLY AVAILABLE TO STUDENTS WHO DECLARED STS PRIOR TO 9/1/2012
3. **Required Interdisciplinary Senior Seminar (1 course):**

   STS 200 A, B, C, D or F. STS Senior Capstone (5, A/W/S) or
   STS 299. Advanced Individual Work (1-5, A/W/S) for students writing an STS honors thesis

**Historical perspectives (indicate as H on Curriculum Form)**

- ARTHIST 157A. Histories of Photography (4, A) or ARTHIST 158A. History of Photography (4, NO)
- CEE 64. Air Pollution and Global Warming: History, Science, and Solutions (3, W)
- CLASSGEN 123. Urban Sustainability: Long-Term Archaeological Perspectives (3-5, W)
- CLASSGEN 133. Invention of Science (3-5, NO)
- EARTHSYS 145. Environmental Crises and Historical Change (4-5, NO)
- ECON 116. American Economic History (5, S)
- HISTORY 40/140. World History of Science (3, 5, W)
- HISTORY 41A/141A. The Age of Plague: Medicine and Society, 1000-1750 (3-5, NO)
- HISTORY 130A. In Sickness and In Health: Medicine and American Society, 1800-Present (5, A)
- *HISTORY 140A. The Scientific Revolution (5, NO)
- HISTORY 208A. Science and Law in History (4-5, W)
- HISTORY 243G. Tobacco and Health in World History (4-5, A)
- ME 120. History and Philosophy of Design (3, S)
- PHIL 163H. The History of Scientific Methods, Pythagoras to Popper (4, NO)
- POLISCI 116. History of Nuclear Weapons (5, NO)

**Social Scientific perspectives (indicate as S on Curriculum Form)**

- AA 116N. Electric Automobiles and Aircraft (3, A)
- ANTHRO 82. Medical Anthropology (3-5, S)
- ANTHRO 180. Science, Technology, and Gender (3-5, NO)
- COMM 1B. Media, Culture, and Society (5, W)
- COMM 108. Media Processes and Effects (4-5, A)
- *COMM 120W. Digital Media in Society (4-5, S)
- COMM 166. Virtual People (4-5, NO)
- COMM 168. Experimental Research in Advanced User Interfaces (1-5, A/W)
- COMM 169. Computers and Interfaces (4-5, W)
- COMM 172. Media Psychology (4-5, S)
- COMM 182. Social Media Issues (4-5, A)
- COMPMED 87Q. Introduction to the Mouse in Biomedical Research (3, A)
- EARTHSYS 57Q. Climate Change from the Past to the Future (3, W)
- EARTHSYS 111. Biology and Global Change (4, W)
- EARTHSYS 184. Climate and Agriculture (3-4, NO)
- ECON 113. Economics of Innovation (5, S)
- ECON 224. Science, Technology, and Economic Growth (2-5, NO)
- ECON 225. Economics of Technology and Innovation (2-5, S)
- EDUC 358X. Learning, Sharing, Publishing, and Intellectual Property (1-4, NO)
- ENGR 110. Perspectives in Assistive Technology (1-3, W)
- HUMBIO 175. Health Care as Seen Through Medical History, Literature, and the Arts (3, A)
- MS&E 181. Issues in Technology and Work for a Post-Industrial Economy (3, S)
- MS&E 185. Global Work (4, W/S)
- MS&E 189. Social Networks - Theory, Methods, and Applications (3, W)
- *MS&E 193. Technology and National Security (3, A)
- POLISCI 122. Introduction to American Law (3-5, A)
- PUBLPOL 194. Technology Policy (3-4, W)
- SOC 114. Economic Sociology (5, A)
- SOC 160. Formal Organizations (5, S)
- SOC 161. The Social Science of Entrepreneurship (5, S)
- STS 190. Issues in Technology and the Environment (5, NO)

**Only Available to Students Who Declared STS Prior to 9/1/2012**
Component # 2: Technical Literacy

A. Computer Literacy

Requirement: successful completion for a letter grade of CS 101, 105, 106A, or the equivalent.

B. Other Technical Literacy

Requirement: successful completion for a letter grade wherever available:

A minimum 4-course, minimum 12-unit sequence of technical classes- *taken in logical order* - in a field of engineering, science, or mathematics or other formal science. Approved sequences from curricula of past STS majors may be inspected upon request at the STS Office. Sequences will normally be in one of the following fields:

<table>
<thead>
<tr>
<th>Science</th>
<th>Engineering</th>
<th>Mathematical Sciences</th>
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<tr>
<td>Applied Physics</td>
<td>Aeronautics and Astronautics</td>
<td>Mathematics**</td>
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<td>Biology</td>
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<td>Statistics</td>
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<td>Earth Systems</td>
<td>Civil and Environmental</td>
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<td>Human Biology</td>
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<td>Management Science &amp; Engineering*</td>
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<td>Material Science &amp; Engineering</td>
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<td>Mechanical Engineering</td>
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*For a minimum-4-course MS&E package to be acceptable, at least 2 of its courses must be drawn from this list of technical MS&E courses: 107, 111, 120, 121, 130, 140, 142, 152/152W, 193/193W.

**A list of acceptable and unacceptable math sequences is available in the STS office.
Component # 3: Thematic Concentration

Requirements:

A. **Focus**: a specific area or topic of concentration

*Option 1*: one of the seven areas pre-certified by STS:

1. Aesthetics, Science, and Technology
2. Development, Science, and Technology
3. History and Philosophy of Science and Technology
4. Information Science and Technology in Society
5. Public Policy, Science, and Technology
7. Work, Technology, and Social Organizations

For Foundational and Advanced courses applicable to each concentration area, see *Thematic Concentration Course Lists*, available on the STS website. Concentration courses must be on a pre-approved course list or be petitioned and approved by the STS Associate Director.

*Option 2*: a *student-designed* area (subject to approval by the STS Associate Director and your faculty advisor):

In 75-100 words, characterize the intellectual focus of the proposed concentration and indicate why it is appropriate for a B.A. major in STS, relating it to some aspect of science and/or technology in society.

B. **Course Package**: all thematic concentration courses must be taken for a letter grade where offered and total at least 20 units in the aggregate.

C. **Foundational/Advanced**: at least one course in the Thematic Concentration course package must be chosen from among those designated on the appropriate Thematic Concentration Area Course List as "Foundational" and at least one from among those designated as "Advanced." Indicate as “F” or “A” on Curriculum Form.

D. **Disciplinary Center of Gravity**: to foster progressive competence in the concentration area, the Course Package must have a "center of gravity" in at least one discipline (e.g., 3 out of 5 or 4 out of 6 courses in sociology, or economics, or...). The center-of-gravity courses need not all be in the same department as long as they are in the same discipline.
B.A. in STS
Curriculum Form: 2011-12
ONLY AVAILABLE TO STUDENTS WHO DECLARED STS PRIOR TO 9/1/2012

Name: ___________________________ Student ID Number: __________________

Stanford E-Mail: ____________________ Expected Graduation Qtr/Yr: __________

Are you a Stanford NCAA Varsity Athlete? If yes, please list sport: __________________

Component # 1: STS Core
(All courses must be taken for a letter grade where offered)

<table>
<thead>
<tr>
<th>Requirement? Indicate with P, H, or S</th>
<th>Qtr/Yr.</th>
<th>Course Dept and Number</th>
<th>Course Title (may be abbreviated)</th>
<th>Units</th>
<th>Grade</th>
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<td>1. _____</td>
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<td>STS 1 or STS 101/101Q</td>
<td>The Public Life of Science and Technology or Science, Technology, and Contemporary Society</td>
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<td>STS 200 or STS 299</td>
<td>STS Senior Capstone (A, B, C, D, E or F) or Advanced Individual Work Sections</td>
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My WIM course (listed above in the Core) is: __________ (Comm 120W; CS 181; History 140A; MS&E 193W, MS&E 197)

Are you pursuing an STS Honors Thesis? No ___ Yes ___

This degree plan has been reviewed by the STS Undergraduate Advisor:

Advisor Signature: ___________________________ Date: __________

ONLY AVAILABLE TO STUDENTS WHO DECLARED STS PRIOR TO 9/1/2012
Component # 2: Technical Literacy
(All courses must be taken for a letter grade where offered)

Part A: Computer Literacy: Computer Science 101, 105 or 106A

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<th>Qtr./Yr.</th>
<th>Course Dept and Number</th>
<th>Course Title (may be abbreviated)</th>
<th>Units</th>
<th>Grade</th>
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Part B: Science, Engineering, Math, or Engineering Fundamentals Literacy
(minimum-4-course-sequence amounting to at least 12 units)

Field: ____________________________________________

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<th>Qtr./Yr.</th>
<th>Course Dept and Number</th>
<th>Course Title (may be abbreviated)</th>
<th>Units</th>
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Total units: ___

Technical Literacy Approval:

The signature below must be that of a Stanford faculty member who is knowledgeable in the Technical Literacy area and a member of the Stanford Academic Council (not a visiting professor or a lecturer).

Note to would-be signer: your signature will be taken to mean that in your view (a) the listed courses comprise a suitable package of offerings for the purpose of the STS B.A. degree Technical Literacy, and (b) successful completion of the course sequence is likely to foster a measure of progressive competence by the student in the chosen concentration area.

Signature: ______________________________________ Dept. ________

Name: ___________________________________________ Date: __________

ONLY AVAILABLE TO STUDENTS WHO DECLARED STS PRIOR TO 9/1/2012
Component # 3: Thematic Concentration
(All courses must be taken for a grade where offered)

Each Thematic Concentration must contain at least 5 courses amounting to at least 20 units, with at least one of these courses being a foundational (F) course and at least one an advanced (A) course.

Option # 1: STS Pre-certified Concentration Area

Area/Topic Selected: _________________________________________________________________

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<th>Indicate</th>
<th>Qtr./Yr.</th>
<th>Course Dept and Number</th>
<th>Course Title (may be abbreviated)</th>
<th>Units</th>
<th>Grade</th>
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Total units: ____

The intellectual center of gravity of the above Thematic Concentration Package lies in the following discipline(s): ________________________________________________________________.

Thematic Concentration Signature of Approval for Option # 1:

The signature below must be that of a Stanford faculty member who is knowledgeable in the Thematic Concentration area and a member of the Stanford Academic Council (not a visiting professor or a lecturer).

*Note to would-be signer:* your signature will be taken to mean that in your view (a) the listed courses comprise a suitable package of offerings for the purpose of the STS B.A. degree Thematic Concentration, and (b) successful completion of the total course package, with its indicated foundational and advanced elements, is likely to foster a measure of progressive competence by the student in the chosen concentration area.

Signature: ___________________________________________ Dept. ___________

Name: ___________________________________________ Date: ___________
Option # 2: Student-Designed Concentration Area

Area/Topic Proposed: __________________________________________________________

Please justify your choice of a student-designed Concentration Area in 50-100 words:

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

The intellectual center of gravity of the above Thematic Concentration Package lies in the following discipline(s): ________________________________________________________________

Thematic Concentration Signature of Approval for Option # 2:

The signature below must be that of a Stanford faculty member who is knowledgeable in the Thematic Concentration area and a member of the Stanford Academic Council (not a visiting professor or a lecturer).

Note to would-be signer: your signature will be taken to mean that in your view (a) the listed courses comprise a suitable package of offerings for the purpose of the STS B.A. degree Thematic Concentration, and (b) successful completion of the total course package, with its indicated foundational and advanced elements, is likely to foster a measure of progressive competence by the student in the chosen concentration area.

Signature: ___________________________________________________________ Dept. ____________

Name: ________________________________________________________________ Date: ____________

ONLY AVAILABLE TO STUDENTS WHO DECLARED STS PRIOR TO 9/1/2012
STSB.A. Concentration Course List in
AESTHETICS, SCIENCE & TECHNOLOGY

ONLY AVAILABLE TO MAJORS WHO DECLARED BEFORE 9/1/12

Study of the interplay of technological and scientific change with both fine arts and practical arts (industrial and urban design).

When choosing courses, please remember:
1) All concentration courses must be taken for a letter grade where offered and total at least 20 units.
2) At least one course must be designated as “foundational” and at least one must be designated as “advanced” – please indicate this as ‘F’ or ‘A’ on your curriculum form.
3) You must have a center of gravity in at least one discipline (e.g., 3/5 courses or 4/6 courses in mechanical engineering, or art history, or…). The center of gravity courses do not need to all be in the same department as long as they are in the same discipline.

Foundational:
- ARTHIST 1: Introduction to the Visual Arts: History of Western Art from the Renaissance to the Present (5, A)
- ARTHIST 3: Introduction to the History of Architecture (5, S)
- ARTHIST 155: American Art Since 1945 (4, NO)
- ARTHIST 157A: Histories of Photography (4, A) or ARTHIST 158A: History of Photography (4, NO)
- ARTHIST 173: Issues in Contemporary Art (4, NO)
- ARTSTUDI 160: Design I: Fundamental Visual Language (3-4, A/W/S)
- CLASSART 113 (previously STS 112): Ten Things: An Archaeology of Design (3-5, W)
- CLASSENG 123: Urban Sustainability: Long-Term Archaeological Perspective (3-5, W)
- ME 101: Visual Thinking (4, A/W/S)
- ME 115A: Introduction to Human Values in Design (3, A)
- ME 115B: Product Design Methods (3, W)

Advanced:
- ARTSTUDI 260: Design II: The Bridge (3-4, W/S)
- ME 120: History and Philosophy of Design (3, S)
- ME 214: Good Products, Bad Products (3-4, W)
- ME 216A: Advanced Product Design: Needfinding (3-4, A)
- ME 216B: Advanced Product Design: Implementation 1 (4, W)
- MUSIC 192A: Foundations of Sound-Recording Technology (3, A)
- MUSIC 192B: Advanced Sound Recording Technology (3, W)
- MUSIC 220A: Fundamentals of Computer-Generated Sound (2-4, A)
- MUSIC 220B: Compositional Algorithms, Psychoacoustics, and Computational Music (2-4, W)
- MUSIC 220C: Research Seminar in Computer-Generated Music (2-4, S)

Sample Concentration:
- ARTSTUDI 160 [Foundational]
- ME 101 [Foundational]
- ARTSTUDI 260 [Advanced]
- ME 216A [Advanced]
- ME 214 [Advanced]

Center of Gravity: Mechanical Engineering/Product Design

~Course list and quarter offerings updated for 13-14 academic year~
B.A. Concentration Course List in
DEVELOPMENT, SCIENCE & TECHNOLOGY

ONLY AVAILABLE TO MAJORS WHO DECLARED BEFORE 9/1/12

Study of the nature, causes, and consequences of national economic development, with attention to the roles of technology and science and the influences of society-specific historical, political-economic, and cultural factors.

When choosing courses, please remember:

1) All concentration courses must be taken for a letter grade where offered and total at least 20 units.
2) At least one course must be designated as “foundational” and at least one must be designated as “advanced” – please indicate this as ‘F’ or ‘A’ on your curriculum form.
3) You must have a center of gravity in at least one discipline (e.g., 3/5 courses or 4/6 courses in political science, or economics, or…). The center of gravity courses do not need to all be in the same department as long as they are in the same discipline.

Foundational:

ANTHRO 1: Introduction to Cultural and Social Anthropology (5, W)
ECON 1A: Introductory Economics A (5, NO)
ECON 1B: Introductory Economics B (5, NO)
ECON 50: Economic Analysis I (5, A/W/SUM)
ECON 51: Economic Analysis II (5, W/S/SUM)
ECON 52: Economic Analysis III (5, W/S/SUM)
ECON 113: Economics of Innovation (5, S)
MS&E 181: Issues in Technology and Work for a Post-Industrial Economy (3, S)
MS&E 185: Global Work (4, W/S)
POLISCI 1: Introduction to International Relations (5, A)
POLISCI 114D: Democracy, Development, and the Rule of Law (5, A)
POLISCI 147: Comparative Democratic Development (5, NO)
SOC 114: Economic Sociology (4, A)

Advanced:

ECON 116: American Economic History (5, S)
ECON 118: Development Economics (5, W)
ECON 214: Development Economics I (2-5, A)
ECON 216: Development Economics III (2-5, NO)
EDUC 306A: Economics of Education in the Global Economy (5, A)
HISTORY 279: Latin American Development: Economy and Society, 1800-2000 (4-5, NO)
POLISCI 248S: Latin American Politics (5, W)

Sample Concentration:
ECON 1A [Foundational]
ECON 50 [Foundational]
ANTHRO 1 [Foundational]
POLISCI 147 [Foundational]
ECON 116 [Advanced]

Center of Gravity: Economics

~Course list and quarter offerings updated for 13-14 academic year~
B.A. Concentration Course List in
HISTORY AND PHILOSOPHY OF SCIENCE AND TECHNOLOGY

ONLY AVAILABLE TO MAJORS WHO DECLARED BEFORE 9/1/12

Study of the natures, key concepts, theories, bodies of knowledge, practices, histories, and evolving relationship of science and technology in society, with attention to pertinent influential internal and external factors and contexts.

When choosing courses, please remember:
1) All concentration courses must be taken for a letter grade where offered and total at least 20 units.
2) At least one course must be designated as “foundational” and at least one must be designated as “advanced” – please indicate this as ‘F’ or ‘A’ on your curriculum form.
3) You must have a center of gravity in at least one discipline (e.g., 3/5 courses or 4/6 courses in history, or philosophy, or...). The center of gravity courses do not need to all be in the same department as long as they are in the same discipline.

Foundational:

CEE 64: Air Pollution and Global Warming: History, Science, and Solutions (3, W)
CLASSGEN 133: Invention of Science (3-5, NO)
EARTHSYS 145: Environmental Crises and Historical Change (4-5, NO)
HISTORY 40/140: World History of Science (3-5, W)
HISTORY 130A: In Sickness and In Health: Medicine and American Society, 1800-Present (5, A)
PHIL 60: Introduction to Philosophy of Science (5, A)
PHIL 61: Science, Religion, and the Birth of Modern Philosophy (5, NO)
POLISCI 116: History of Nuclear Weapons (5, NO)
A three- or four-quarter sequence of courses in biology, chemistry, physics, or engineering

Advanced:

HISTORY 243C: Colonial Science and Medicine (4-5, NO)
HISTORY 243G: Tobacco and Health in World History (4-5, A)
HISTORY 243S: Human Origins: History, Evidence, and Controversy (4-5, NO)
HISTORY 244C: The History of the Body in Science, Medicine, and Culture (4-5, NO)
PHIL 163H: The History of Scientific Methods, Pythagoras to Popper (4, NO)
PHIL 164/264: Central Topics in the Philosophy of Science: Theory & Evidence (4, S)
PHIL 165/265: Philosophy of Physics (4, W)
PHIL 167A/267A: Philosophy of Biology (2-4, NO)

Note 1: The above mentioned sequence of technical courses counts as a single foundational course; therefore, the Thematic Concentration must contain at least 4 science- or technology-related courses of an historical or philosophical nature other than these courses.

Sample Concentration:
HISTORY 140 [Foundational]
PHIL 61 [Foundational]
HISTORY 243C [Advanced]
HISTORY 243G [Advanced]
HISTORY 244C [Advanced]

Center of Gravity: History

~Course list and quarter offerings updated for 13-14 academic year~
B.A. Concentration Course List in
INFORMATION SCIENCE AND TECHNOLOGY IN SOCIETY

ONLY AVAILABLE TO MAJORS WHO DECLARED BEFORE 9/1/12

Study of the effects of information technology and technologies—e.g., computers, digital artifacts, and mass media—on society, including social institutions, groups, processes, and structures. The concentration also permits exploration of how social and cultural forces shape information technologies, including human-computer interfaces, the diffusion of IT, and its regulation.

When choosing courses, please remember:
1) All concentration courses must be taken for a letter grade where offered and total at least 20 units.
2) At least one course must be designated as “foundational” and at least one must be designated as “advanced” – please indicate this as ‘F’ or ‘A’ on your curriculum form.
3) You must have a center of gravity in at least one discipline (e.g., 3/5 courses or 4/6 courses in communication, or computer science, or…). The center of gravity courses do not need to all be in the same department as long as they are in the same discipline.

Foundational:
COMM 1A: Media, Technologies, Peoples, and Society (4-5, A)
COMM 1B: Media, Culture, and Society (5, W)
COMM 108: Media Processes and Effects (4-5, A)
COMM 117: Digital Journalism (4-5, W)
COMM 120W: Digital Media in Society (4-5, S)
COMM 169: Computers and Interfaces (4-5, W)
COMM 172: Media Psychology (4-5, S)
COMM 182: Social Media Issues (4-5, A)
CS 105: Introduction to Computers (3-5, AW)
CS 106A: Programming Methodology (3-5, A/W/S/SUM)
CS 147: Introduction to Human-Computer Interaction Design (3-4, W)
MS&E 189: Social Networks – Theory, Methods, and Applications (3, W)

Advanced:
COMM 108, 117, 120W, 169, 172, or 182 taken at a non-introductory level by arrangement with professor or taken at the 200-level (e.g., 208, 217, 220, 269, 272 or 282)
COMM 131: Media Ethics and Responsibility (4-5, NO)
COMM 137W: The Dialogue of Democracy (4-5, NO)
COMM 166: Virtual People (4-5, NO)
COMM 168/268: Experimental Research in Advanced User Interfaces (1-5, AW)
CS 181: Computers, Ethics, and Public Policy (4, A/W/S)
CS 247 & 247L: Human-Computer Interaction Design Studio & Technology Laboratory (3-4, S)
CS 255: Introduction to Cryptography (3, W)
CS 377: Topics in Human-Computer Interaction (2-3, NO)
CS 378: Phenomenological Foundations of Cognition, Language, and Computation (3-4, NO)
EDUC 358X: Learning, Sharing, Publishing, and Intellectual Property (1-4, NO)

Sample Concentration:
COMM 1A [Foundational]
COMM 120W [Foundational]
COMM 169 [Foundational]
CS 147 [Foundational]
CS 247 [Advanced]

Center of Gravity: Communication

~Course list and quarter offerings updated for 13-14 academic year~
Study of national—primarily U.S.—public policy pertaining to science and technology, with attention to decision-making, the role of experts, and conflicting forces attempting to shape such policy. Policies intended to promote scientific and technological progress for the purpose of enhancing economic competitiveness as well as ones intended to strengthen the social control of scientific and technological developments. The nature, role of, and policy on technical innovation in industrial society.

When choosing courses, please remember:
1) All concentration courses must be taken for a letter grade where offered and total at least 20 units.
2) At least one course must be designated as “foundational” and at least one must be designated as “advanced” – please indicate this as ‘F’ or ‘A’ on your curriculum form.
3) You must have a center of gravity in at least one discipline (e.g., 3/5 courses or 4/6 courses in political science, or economics, or...). The center of gravity courses do not need to all be in the same department as long as they are in the same discipline.

Foundational:

ECON 1A: Introductory Economics A (5, NO)
ECON 1B: Introductory Economics B (5, NO)
ECON 50: Economic Analysis I (5, A/W/SUM)
MS&E 197 (previously STS 110): Ethics and Public Policy (5, W)
POLISCI 2: Introduction to American National Government and Politics (5, S)
POLISCI 122: Introduction to American Law (3-5, A)

Advanced:

CS 181: Computers, Ethics, and Public Policy (4, A/W/S)
ECON 116: American Economic History (5, S)
ECON 118: Development Economics (5, W)
ECON 126: Economics of Health and Medical Care (5, A/W)
ECON 150: Economic Policy Analysis (4-5, W/S)
ECON 155: Environmental Economics and Policy (5, W)
ECON 158: Regulatory Economics (5, W)
MS&E 193: Technology and National Security (3, A)
PUBLPOL 102: Organizations and Public Policy (4-5, S)
PUBLPOL 194: Technology Policy (3-4, W)

Sample Concentration:
ECON 1A [Foundational]
ECON 50 [Foundational]
POLISCI 2 [Foundational]
ECON 116 [Advanced]
PUBLPOL 194 [Advanced]

Center of Gravity: Economics
B.A. Concentration Course List in

SCIENCE, TECHNOLOGY, AND SOCIAL CHANGE

ONLY AVAILABLE TO MAJORS WHO DECLARED BEFORE 9/1/12

Study of the processes of and factors fostering and impeding social change, with special attention to the roles and influences of scientific and technological developments.

When choosing courses, please remember:

1) All concentration courses must be taken for a letter grade where offered and total at least 20 units.
2) At least one course must be designated as “foundational” and at least one must be designated as “advanced” – please indicate this as ‘F’ or ‘A’ on your curriculum form.
3) You must have a center of gravity in at least one discipline (e.g., 3/5 courses or 4/6 courses in sociology, or economics, or…). The center of gravity courses do not need to all be in the same department as long as they are in the same discipline.

Foundational:

ANTHRO 1: Introduction to Cultural and Social Anthropology (5, W)
ANTHRO 82: Medical Anthropology (3-5, S)
ANTHRO 180: Science, Technology, and Gender (3-5, NO)
COMM 120W: Digital Media in Society (4-5, S)
COMM 182: Social Media Issues (4-5, A)
CEE 64: Air Pollution and Global Warming: History, Science, and Solutions (3, W)
EARTH SYS 145: Environmental Crises and Historical Change (4-5, NO)
ECON 1A: Introductory Economics A (5, NO)
ECON 1B: Introductory Economics B (5, NO)
ECON 50: Economic Analysis I (5, A/W/SUM)
ECON 113: Economics of Innovation (5, S)
ECON 155: Environmental Economics and Policy (5, W)
HISTORY 130A: In Sickness and In Health: Medicine and American Society, 1800-Present (5, A)
SOC 1: Introduction to Sociology at Stanford (5, A)
SOC 114: Economic Sociology (4, A)
SOC 160: Formal Organizations (5, S)

Advanced:

COMM 168/268: Experimental Research in Advanced User Interfaces (1-5, A/W)
ECON 116: American Economic History (5, S)
HISTORY 243G: Tobacco and Health in World History (4-5, A)
SOC 115: Topics in Economic Sociology (5, NO)
SOC 231: World, Societal & Educ. Change: Comparative Perspectives (4-5, W)

Sample Concentration:
ANTHRO 82 [Foundational]
SOC 1 [Foundational]
SOC 114 [Foundational]
ANTHRO 180 [Foundational]
SOC 115 [Advanced]

Center of Gravity: Sociology

~Course list and quarter offerings updated for 13-14 academic year~
B.A. Concentration Course List in
WORK, TECHNOLOGY, AND SOCIAL ORGANIZATIONS

ONLY AVAILABLE TO MAJORS WHO DECLARED BEFORE 9/1/12

Study of the changing nature, the social and cultural implications, and the public and private policy contexts of work and organizations in contemporary industrial societies, with special attention to the role of scientific and technological developments.

When choosing courses, please remember:

1) All concentration courses must be taken for a letter grade where offered and total at least 20 units.
2) At least one course must be designated as “foundational” and at least one must be designated as “advanced” – please indicate this as ‘F’ or ‘A’ on your curriculum form.
3) You must have a center of gravity in at least one discipline (e.g., 3/5 courses or 4/6 courses in sociology, or management science & engineering, or…). The center of gravity courses do not need to all be in the same department as long as they are in the same discipline.

Foundational Courses

ECON 113: Economics of Innovation (5, S)
ENGR 145: Technology Entrepreneurship (4, AW/SUM)
MS&E 175: Innovation, Creativity, and Change (3-4, W)
MS&E 180: Organizations: Theory and Management (4, AS)
MS&E 181: Issues in Technology and Work for a Post-Industrial Economy (3, S)
MS&E 185: Global Work (4, W/S)
MS&E 189: Social Networks – Theories, Methods, and Applications (3, W)
SOC 1: Introduction to Sociology at Stanford (5, NO)
SOC 114: Economic Sociology (4, A)
SOC 160: Formal Organizations (5, S)
SOC 161: The Social Science of Entrepreneurship (4, S)

Advanced Courses

CEE 251: Negotiation (3, W)
ECON 116: American Economic History (5, S)
ECON 145: Labor Economics (5, A)
ECON 158: Regulatory Economics (5, W)
MS&E 264: Sustainable Product Development & Manufacturing (3-4, A)
MS&E 266: Management of New Product Development (3, W)
MS&E 271: Global Entrepreneurial Marketing (3-4, W/S)
MS&E 277: Creativity and Innovation (3-4, S)
SOC 115: Topics in Economic Sociology (5, NO)

Sample Concentration:

SOC 114 [Foundational]
MS&E 180 [Foundational]
MS&E 181 [Foundational]
ECON 145 [Advanced]
MS&E 266 [Advanced]

Center of Gravity: MS&E