

Science, Technology, Ethics and Policy (STEP) Minor Electives (Spring 2022)

Below are the electives for the three concentration areas of the STEP minor. You will work with the STEP minor advisor to select your concentration and elective courses. While we have categorized courses under concentrations, it is possible they may also be suitable for a concentration it isn't listed under. You can work with the advisor and/or program director to make those determinations. You may also learn about a course that isn't on this list that is suitable as STEP minor elective. In this case, you may request the advisor and program director to review the appropriateness of the course for your STEP minor course plan. See the definition for a STEP elective below.

Definition of a STEP Elective: *A course that approaches science and technology issues from a humanities and/or social sciences perspective.*

Social, ethical and policy implications: This concentration explores the contemporary societal implications of science and technology. These courses ask students to think about the role science and technology has played in creating local and global social and environmental crises and what science and technology can do to help solve them. (Number of Courses = 30)

- AGNR301: Sustainability
- ANSC 227: Eating with Eyes Wide Open (NS, IS)
- ANSC437: Animal Biotechnology
- ANTH 210: Intro to Medical Anthropology and Global Health (HS, UP)
- ANTH265: Anthropology of Global Health
- ANTH 266: Changing Climate, Changing Cultures (HS, CC, IS)
- ANTH323: Plagues, Pathogens and Public Policy
- ANTH413: Health Disparities in the United States
- ANTH415: Advanced Studies in Global Health
- AOSC 123: Causes & Implications of Global Change (NS, IS)
- ARCH271: People, Planet, and Profit: Building Sustainable Places – SP
- ARCH289I: Sustainability at College Park – NS or SP, IS
- AREC200: The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy (NS, SP, IS)
- AREC 241: Environment, Economics, and Policy (HS, IS)
- ASTR 220: Collisions in Space: The Threat of Asteroid Impacts (NS, IS)
- BSCI 126: Pollinators in Crisis (NS, IS)
- CPSS340: Infrastructure and Society
- ENEE200: Technology & Consequences: Engineering, Ethics, and Humanity (HU, IS)
- FGSM310: Political Engagement & Advocacy (*must be FGSM Fellow*)
- FGSM320: Public Health Policy (*must be FGSM Fellow*)
- FGSM330: Homeland & National Security Policy (*must be FGSM Fellow*)

- FGSM340: Energy & Environmental Policy (*must be FGSM Fellow*)
- FGSM355: International Security and Intelligence (*must be FGSM Fellow*)
- FGSM370: Science Diplomacy (*must be FGSM Fellow*)
- FGSM380: Responses to Global Challenges (*must be FGSM Fellow*)
- FGSM390: Water Security & Global Health Challenges (*must be FGSM Fellow*)
- GVPT273: Introduction to Environmental Politics (SP)
- HIST401: Science and Gender
- HNUH228B: Redesigning Life: Prospects and Consequences
- HNUH228U: A Life Worth Living: The Legacy of Eugenics in Genetics
- HNUH228V: At What Cost? An Examination of the Societal and Ethical Impact of Modern Biological Research
- KNES226: The Cybernetic Human
- LARC452: Green Infrastructure and Community Greening
- PHIL200A: Bioethics: Regulating Right and Wrong
- PHIL201: Spooky Action at a Distance: Where Physics Meet Metaphysics (HU, IS)
- PHIL202: Know Thyself: Wisdom through Cognitive Sciences (HS or HU, IS)
- PHIL220: Bioethics: Regulating Right and Wrong
- PHIL261: Philosophy of the Environment
- PHYS105: Global Challenges: Energy & Climate Change (NS, IS)
- PLCY401: Contemporary Issues in Public Policy- Politics of Pandemic and Outbreak Response
- PLCY203: Liberty and Justice for All: Ethics and Moral Issues in Public Policy
- PLCY301: Sustainability
- PLCY388V: Special Topics in Public Policy: From Artificial Intelligence to Genetic Engineering, Policy Implications of Emerging Technologies
- PLCY388W: Special Topics in Public Policy; Global Action and Problem Solving
- PLSC125: Feeding Nine Billion by 2050: Food Security and Crop Protection (NS, IS)

Science and technology development: This concentration focuses on cultural, legal, organizational, and institutional forces that have shaped science and technology. It asks students to think about what causes knowledge production and technical practices to change over time and how these changes can improve implementation going forward. (Number of Courses = 25)

- ANTH453: Archaeology of the Modern City
- ARCH 170: Design Thinking and Architecture (HU)
- BMGT289A: Social Enterprise: Changing the World through Innovation and Transformative Action (SP, IS)
- BMGT289B: How Do Innovators Think? (SP, IS)
- BSCI135: Amazing Green: Plants that Transformed the World (NL, IS)
- ENCE215: Engineering for Sustainability
- ENMA150: Materials of Civilization (NS, IS)
- ENMA289A: Bigger, Faster, Better: The Quest for Absolute Technology – NS, IS
- ENME467: (Perm Req) Engineering for Social Change
- ENME 489B: Entrepreneurial Design Realization
- FGSM330: Homeland & National Security Policy (*must be FGSM Fellow*)
- FGSM350: Critical Regions & International Relations (*must be FGSM Fellow*)

- FGSM355: International Security and Intelligence (*must be FGSM Fellow*)
- FGSM360: US Diplomacy & Policymaking (*must be FGSM Fellow*)
- FGSM370: Science Diplomacy: Foreign Policy and Science, Technology, and Innovation (*must be FGSM Fellow*)
- FGSM380: Responses to Global Challenges (*must be FGSM Fellow*)
- FGSM390: Water Security & Global Health Challenges (*must be FGSM Fellow*)
- HIST204: History of Science (HS)
- HIST205: Environmental History (HS or HU)
- HIST206: Introduction to the History of Technology
- HIST224: Modern Military History, 1494-1815 (HSs)
- HIST289Y: Zombies, Fear, and Contagion: A Cultural History of Public Health, Medicine, and Technology (HS or HU, UP, IS)
- HIST329X: Planes, Trains, and Automobiles: Mobility and Transportation in History
- HIST405: Environmental History
- HIST406: History of Technology
- HIST407: Technology and Social Change in History (3 Credits)
- HNUH228W: Planetary Protection vs. Planetary Imperialism
- INST366: Privacy, Security and Ethics for Big Data
- KNES226: The Cybernetic Human – NS, IS
- KNES285: History of Physical Culture, Sport, & Science in America
- LARC263: History of Landscape Architecture – HU
- PHIL220: Bioethics
- PHIL250: Philosophy of Science I
- PHYS235: The Manhattan Project (HS or NS, IS)
- PLCY388B: Special Topics in Public Policy; Intelligence Theory and Practice
- URSP250: The Sustainable City (SP, IS)

Information economy: This concentration focuses on how the information economy has shaped scientific and technological practices. Students are asked to think about society’s evolving relationships with information as a driving force in the private and public sector. (Number of Courses = 26)

- AMST260: American Culture in the Information Age (HS, IS)
- ASTR230: Science and Fiction of Planetary Systems (NS, IS)
- BIOE489Y: Bioengineering for Global Health
- ENGL255: Literature of Science and Technology (HU)
- ENGL293: Writing in a Wireless World (HU or SP)
- ENGL376: The Speculative Imagination: Science Fiction on Page and Screen
- ENGL378F: Special Topics in English; Paranoia, Conspiracies, and Fake News
- FGSM370: Science Diplomacy: Foreign Policy and Science, Technology, and Innovation (*must be FGSM Fellow*)
- FGSM355: International Security and Intelligence (*must be FGSM Fellow*)
- GEOG170: Mapping our Digital World (NS)
- HLTH234: Global Health Messages: Understanding Exposure & Impact

- HLTH364: Social Media & Digital Tools for Community & Public Health
- INST152: “Fake-Checking”: Battling Misinformation and Disinformation in the Real World (SP)
- INST154: Apollo at 50 (IS)
- INST155: Social Networking: Technology and Society (IS)
- INST201: Introduction to Information Science (HS)
- INST408C: Ethical Hacking
- INST466: Technology, Culture, and Society
- JOUR175: Media Literacy (SP, UP)
- JOUR282: Beyond Facebook: How Social Media are Transforming Society (HU, IS)
- JOUR281: Media Law and Ethics in the Digital Age – (HS, IS) t
- KNES222: Gambling in the New Millennium – HS, IS
- PLCY304: Evaluating Evidence: Finding Truth in Numbers
- PLCY388C: Special Topics in Public Policy; Cybersecurity Policy: Practical Hacking for Policy Makers
- SOCY225: Women’s Jobs, Men’s Jobs: Difference? (HS, IS)