HISTORY AND PHILOSOPHY OF SCIENCE

Courses offered by the Program in History and Philosophy of Science are listed under the subject code HPS on the Stanford Bulletin’s ExploreCourses web site.

The Program in History and Philosophy of Science (HPS) teaches students to examine the sciences, medicine and technology from a number of perspectives, conceptual, historical and social. The community of scholars includes core faculty and students in History and Philosophy and affiliated members in Classics, Anthropology, English, Political Science, Communication, and other disciplines. Together, they draw upon the multiple methods of their disciplines to study the development, functioning, applications, and social and cultural engagements of the sciences.

Stanford’s Program in History and Philosophy of Science is a collaborative enterprise of the departments of History and Philosophy. Each department has its own undergraduate and graduate degree programs in this area, but these overlap and interact through the structure of requirements, advising, team-taught courses, an active graduate student community and a shared colloquium series (http://hps.stanford.edu/colloquia.html).

The program’s courses span from antiquity to the late 20th century, with emphasis on:

- ancient science
- Renaissance science
- the Scientific Revolution
- Enlightenment and transatlantic science
- history of medicine and the body
- history and philosophy of biology
- history and philosophy of modern physics
- history of the philosophy of science from the early modern period to the present
- central issues in contemporary philosophy of science
- gender, science, and technology

Undergraduate Degrees

HPS offers undergraduates the opportunity to study science, medicine and technology by combining scientific and humanistic perspectives in a single program. Students can pursue HPS through the two departments (History and Philosophy) that coordinate this interdisciplinary program. The HPS Program offers students an in-depth understanding of the nature and evolution of scientific ideas, practices, and institutions; their contemporary significance to intellectual life; and their material transformation of the modern world.

The Department of History offers an interdisciplinary track in History of Science, and Medicine (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/history/#bachelorstext). This track is especially well suited to students who wish to combine history and science, or who are interested in studying the history of science and medicine in combination with 2019-20 Paula Findlen for History and Michael Friedman for Philosophy) to discuss the undergraduate program.

Graduate Degrees

Graduate students in the Program in History and Philosophy of Science can pursue a Ph.D. either in History, through its Ph.D. concentration in History of Science, Medicine, and Technology, or in Philosophy, through its Ph.D. subplan in History and Philosophy of Science. Diplomas will be issued by the respective departments, but the HPS study will not be noted on the transcript nor on the diploma.

Graduate students in the Program in History and Philosophy of Science that wish to pursue a Ph.D. in Philosophy must fulfill Departmental degree requirements (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/philosophy/#doctoraltext) and the following requirements:

1. HPS colloquium series attendance
2. One of the following graduate level Philosophy of Science courses: 263, 264, 264A, 265, 265C, 266, 267A or 267B
3. One elective seminar in the history of science
4. One elective seminar (in addition to the course satisfying requirement 2) in philosophy of science

Philosophy Ph.D. students declaring the HPS subplan in Axess will have it appear on the official transcript but is not printed on the diploma.

The Program in History and Philosophy of Science degree requirements for the Ph.D. in History of Science, Medicine and Technology, in addition to the general History Department Ph.D. degree requirements (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/history/#doctoraltext), are:

1. HPS colloquium series attendance
2. the History Department core seminar in History of Science, Medicine and Technology
3. Four other courses in the history of science, technology and/or medicine
4. One course in the philosophy of science
5. Five additional courses in a given geographical or national field of research, one of which must be a core course

The courses described above must include two research seminars, at least one of which must be in the history of science, technology and/or medicine. Students are expected to write papers on substantially different topics for each seminar. You should also aim to present your research at the annual meeting of a professional society associated with the history of science, technology and/or medicine sometime during your third or fourth year. For more information, see the program's (http://hps.stanford.edu/grad.html) web site.

Bachelor of Arts Programs

HPS offers undergraduates the opportunity to study science, medicine and technology by combining scientific and humanistic perspectives in a single program. Students can pursue HPS through the two departments (History and Philosophy) that coordinate this interdisciplinary program. The HPS Program offers students an in-depth understanding of the nature and evolution of scientific ideas, practices, and institutions; their contemporary significance to intellectual life; and their material transformation of the modern world.

The Department of History offers an interdisciplinary track in History of Science, and Medicine (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/history/#bachelorstext). This track is especially well suited to students who wish to combine history and science, or who are interested in studying the history of science and medicine in combination with
Introduction to Philosophy of Science 5
HPS/PHIL 61 Philosophy and the Scientific Revolution 5

Science in History
This sequence is designed to introduce students to the history of Science from antiquity to the 20th century. Students are advised to take most or all of this sequence as a core foundation.

Philosophical Perspectives on Science, Medicine, and Technology
This sequence is designed to introduce students to the philosophy of science. Students are advised to take HPS 61 Philosophy and the Scientific Revolution above as a starting point, and combine a number of the electives listed below in conjunction with courses in the other concentrations that address their specific interests.

Advanced Course Sequences
The following courses focus on contemporary cultural and social science approaches to science, technology, and medicine.

Medicine in History
This sequence is designed to introduce students to the history of medicine from antiquity to the 20th century.

Units

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<th>Course Code</th>
<th>Course Title</th>
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<td>AMSTUD 41Q</td>
<td>Madwomen and Madmen: Gender and the History of Mental Illness in the U.S.</td>
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<td>HISTORY 243G/343G</td>
<td>Tobacco and Health in World History</td>
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<tr>
<td>HISTORY 244C</td>
<td>The History of the Body in Science, Medicine, and Culture</td>
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<td>HPS 199</td>
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<td>Graduate Individual Work</td>
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<td>ANTHRO 180</td>
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<tr>
<td>HISTORY 44Q</td>
<td>Gendered Innovations in Science, Medicine, Engineering, and Environment</td>
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<td>HISTORY 203F</td>
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<td>HISTORY 204D</td>
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<td>HISTORY 344F</td>
<td>Beyond Pink and Blue: Gender in Tech</td>
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Graduate students in the Program in History and Philosophy of Science that wish to pursue a Ph.D. in Philosophy must fulfill Philosophy Department Ph.D. requirements (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/philosophy/#doctoraltex-doctphilhilphdsbphilhpsci-fi) and the following requirements:

1. HPS colloquium series attendance
2. One of the following graduate level Philosophy of Science courses: 263, 264, 264A, or 266
3. One elective seminar in the history of science
4. One elective seminar (in addition to the course satisfying requirement 2) in philosophy of science

Philosophy Ph.D. students declaring the HPS subplan via the Declaration or Change to a Field of Study form (http://studentaffairs.stanford.edu/sites/default/files/registr/files/grad-subplan-change.pdf) will have it appear on the official transcript but is not printed on the diploma.

The Program in History and Philosophy of Science degree requirements for the Ph.D. in History of Science, Medicine and Technology, in addition to the general History Department Ph.D. degree requirements (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/history/#doctoraltex-doctphilhist-requirements), are:

1. HPS colloquium series attendance
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3. Four other courses in the history of science, technology and/or medicine
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Course Sequences

See the Bachelor's tab for all History and Philosophy of Science courses offered in this academic year.

Co-chairs: Paula Findlen (History), Michael Friedman (Philosophy)

Directors of Graduate Studies: Paula Findlen (History), Michael Friedman (Philosophy)

Committee-in-Charge: Paula Findlen (History), Michael Friedman (Philosophy), Helen Longino (Philosophy), Reviel Netz (Classics), Robert Proctor (History), Jessica Riskin (History), Thomas Ryckman (Philosophy)

Program Committee: Paula Findlen (History), Michael Friedman (Philosophy), Helen Longino (Philosophy), Tom Mullaney (History), Reviel Netz (Classics), Robert Proctor (History), Jessica Riskin (History), Thomas Ryckman (Philosophy), Richard White (History), Caroline Winterer (History)

Associate Professors: Thomas Mullaney (History), Sarah Jain (Anthropology), Priya Satia (History)

Professor (Teaching): Thomas Ryckman (Philosophy)

Professor (Research): Rega Wood (Philosophy, emerita)

Senior Lecturer: Paul Edwards (STS)

Other Affiliation: Henry Lowood (Stanford University Libraries), Larry Lagerstrom (UAR)

Visiting Scholars: Adrienne Mayor (Classics), Federica Favino

Overseas Studies Courses in History and Philosophy of Science

The Bing Overseas Studies Program (http://bosp.stanford.edu) manages Stanford study abroad programs for Stanford undergraduates. Students should consult their department or program's student services office for applicability of Overseas Studies courses to a major or minor program.

For course descriptions and additional offerings, see the listings in the Stanford Bulletin's ExploreCourses (http://explorecourses.stanford.edu) or Bing Overseas Studies (http://bosp.stanford.edu).

Units

exploreCourses:OSP hps