HPSCI Major Requirements

Global requirements:

- Complete both the philosophy and science track.
- Complete core science requirements
  - 1 of Math 1050, 1170, 1210, or equivalent or higher.
  - 1 of Math 1060, 1180, 1220, or equivalent or higher.
  - 3 additional College of Science courses (any level).
- Two 5000+ level courses
  - 1 from PHIL/HPSCI.
  - 1 from disciplinary focus (if no 5000+ courses offered, 4000+ may be used in place by permission).
  - Honors: 1 additional 5000+ course from either PHIL/HPSCI or disciplinary focus.
- Notes:
  - Lab/Research credit hours towards HPSCI major is limited to 3 credit hours.
  - Internship credit ineligible towards HPSCI major.

Philosophy Track:

- Minimum 8 unique courses and 24 credits
- Core Philosophy of Science Courses (3 courses)
  - PHIL 3350 History & Philosophy of Science (CW) (required)
  - PHIL 3310 Science & Society (HE)
  - PHIL 3370 Philosophy of Biology (CW)
  - PHIL 3375 Philosophy of Social Science
  - PHIL 3380 Feminist Philosophy of Science (CW,DV)
  - PHIL 3440 Cognitive Science (HE)
  - PHIL 3870 Philosophy of Race (by permission only)
  - PHIL 4380 Philosophy of Physics
  - PHIL 301X Special Topics (by permission only)
  - HPSCI 3900 Special Topics (2nd course by permission only)
  - HPSCI 3950 History of Women in Science, Technology, and Medicine
  - At least 1 capstone course from:
    - PHIL 5200 Advanced Deductive Logic (QB,QI)
    - PHIL 5210 Advanced Inductive Logic
    - PHIL 5220 Rational Choice Theory
    - PHIL 5350 Topics in Philosophy of Science
    - PHIL 5360 Topics in History of Science
    - PHIL 5370 Topics in Philosophy of Biology
    - PHIL 5375 Topics in Philosophy of Social Science
    - PHIL 5450 Philosophy of Mind (by permission only)
    - PHIL 5520 Advanced Bioethics
    - PHIL 5530 Environmental Philosophy
    - PHIL 5192 Philosophy of ________ (by permission only)
    - HPSCI 5900 Special Topics in HPSCI (by permission only)
- No more than 1 course from:
  - HIST 4075 *Introduction to the History of Science*
  - HIST 4080 *History of Medicine in Western Society (IR, HF)*
  - HIST 4085 *History of Technology*
  - HIST 4270 *Empire and Exploration (by permission only)*
- Logic & Formal Methods (2 courses)
  - PHIL 3200 *Deductive Logic (QB,QI)*
  - PHIL 3210 *Inductive Logic (QB,QI)*
  - PHIL 5200 *Advanced Deductive Logic (QB,QI)*
  - PHIL 5210 *Advanced Inductive Logic*
  - PHIL 5220 *Rational Choice Theory*
- Ethics (1 course)
  - PHIL 3390 *Tech & Design Ethics*
  - PHIL 3520 *Bioethics (HF)*
  - PHIL 3530 *Environmental Ethics (HF)*
  - PHIL 3570 *Research Ethics*
  - PHIL 4540 *Engineering Ethics*
  - PHIL 5520 *Advanced Bioethics*
  - PHIL 5530 *Environmental Philosophy*
- History of Philosophy (1 course)
  - Any course satisfying PHIL’s Area III *History of Philosophy* requirement will satisfy this requirement (*excluding PHIL 5360 History of Science*).
- Elective (1 course)
  - Any of the courses listed above, plus those designated as approved electives (see below).

**Science Track:**

Complete one of the following paths:

1. Earn a College of Science major;
2. Earn a College of Social and Behavioral Sciences major (or other approved major);
3. Complete a Focused Disciplinary Pathway;
   a. 4 *unique* upper-division courses from a single focused science, social/behavioral science, or other approved discipline; and
   b. Satisfy prerequisites for each course; and
   c. Coursework must total at least 11 credits.
4. Earn an Approved Certificate or Minor from the following:
   a. Climate Change Certificate;
   b. Cognitive Science Certificate;
   c. Dark Sky Minor.

For recommended pathways through specific majors please contact the Department of Philosophy Advisor Connie Corbett (c.corbett@utah.edu).

**Approved Electives:**

ANTH 4134 *Language, Thought, and Culture: The Anthropology of the Human Mind (BF)*
ANTH 4183 *Sex & Gender (DV)*
ANTH 4245 *Human Migration and Social Change (IR, SUSL)*
ANTH 4481 *Evolutionary Psychology*
COMM 3115 *Communicating Science, Health, Environment*
COMM 4360 Consuming the Earth
COMM 5360 Environmental Communication
COMM 5365 Communicating Climate Change
ECON 3100 Labor Economics (QI)
ECON 3200 Money & Banking (QI)
ECON 3500 International Economics (QI, IR)
ENGL 3080 Studies in Environmental Literature (HF)
ENGL 5760 Studies in Victorian Literature (with pre-approval & permission only)
ENGL 5920 Intellectual Movements (with pre-approval & permission only)
HIST 4075 Introduction to the History of Science
HIST 4080 History of Medicine in Western Society (IR, HF)
HIST 4085 History of Technology
HIST 4270 Empire and Exploration (with pre-approval & permission only)
LING 3300 Computers and Language
LING 4160 Language and Cognition (HF)
LING 4170 Biolinguistics
WRIT 3014 Writing in the Sciences (CW)
WRIT 3705 Rhetoric, Science, and Technology Studies (BF, HF)

Students may petition for other courses to count as electives, subject to the approval of the Philosophy of Science director and advisor.

Pre-Approved Courses
*=approved as elective; ^=approved as HPSCI core course.
PHIL 3011 Ethical and Technological Advances in Medicine (S19)*
PHIL 3012 History and Philosophy of Chemistry^
PHIL 3012 Philosophy of Forensic Science^
PHIL 3013 History of Philosophy, Math, and Logic^
PHIL 3012-002 Philosophy of Time Travel (F22)^
PHIL 3013-002 Alien Invaders! Biological Invasions in Science & Science Fiction (S20)^
PHIL 5450-001 Philosophy of Mind (F22)^