PHILOSOPHY Z SHOULD MAJOR WHY

PHILOSOPHY DEVELOPS COMPUTER SCIENCE SKILLS

People who are interested in pursuing careers in engineering may find philosophy classes truly rewarding, and there are good reasons why. There are many overlapping skills. Philosophy helps develop them in broader contexts:

- identifying problems, weaknesses, and strengths (of situations, arguments, or positions)
- thinking clearly and with organization
- discerning and evaluating evidence
- creative thinking; the ability to imagine alternative scenarios
- logic, induction, deduction
- inference to the best explanation
- articulating thoughts concisely, precisely and without ambiguity

PHILOSOPHICAL QUESTIONS OF INTEREST TO COMPUTER SCIENTISTS

How should we understand and protect intellectual property?

Who owns the rights to intellectual property?

What is technology and how does it relate to science?

How can we develop and use technology in a morally responsible manner?

Is it morally permissible to genetically modify foods?

How should we balance the interests of technological innovation and preservation of the environment?

Is there a way to validate/justify the scientific method?

Are beliefs based on empirical observation the only kind of beliefs that can be known/justified?

If determinism were true, would that undermine free will and moral responsibility?

What is the nature of consciousness? Can there be artificial intelligence?

Can evolution account for design?

VALUE OF PHILOSOPHICAL METHODS IN TECHNICAL FIELDS

Philosophy as an academic discipline simply tries to focus this methodology on very tough questions and problems: "What is the right thing to do?", "How does science give us knowledge?", "How does language work when it takes the form of a proof?", "Do we have free will?", "What is the relationship between the mind and the body?" In fact, in its attempts to solve these problems, it is not at all unlike engineering in its methods. What is unique about philosophy is its excitement about addressing problems for which there is very little in the way of empirical data, and for which it is not clear that an experiment could be devised to obtain empirical data.

Thus philosophy is very much at home in an environment that focuses on science and engineering. Philosophers are often interested in scientific discoveries and technological solutions. Scientists and engineers trained in philosophy can think more deeply about the conceptual foundations of their methods and the ethical implications of their activities.

WHY I SHOULD MAJOR IN PHILOSOPHY

Questions?
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201 Introduction to Philosophy 206 Introduction to Logic and Scientific Reasoning 207 Introduction to Symbolic Logic

230 Moral Theory and Practice 235 Ethical Issues in A Diverse Society

310 Ancient Philosophy

314 17th Century Philosophy

315 18th Century Philosophy

316 19th Century Continental

317 20th and 21st Century Continental Philosophy

318 20th and 21st Century Anglo-American Philosophy

330 Ethical Theory

331 Moral Problems in Medicine

332 Philosophy of Law

334 Environmental Ethics

335 Social and Political Philosophy

336 Bioethics and Biotechnology

338 Feminist Philosophy

340 Aesthetics

343 Philosophy of Technology

350 Philosophy of Religion

364 Metaphysics: God, Minds,

and Matter

366 Truth, Belief and Reason

380 Philosophy of Science

430 Value Theory

450 Persons and Causes (Free Will)

460 Epistemology and Metaphysics

465 Brains, Minds, and Computers

483 Philosophy of Biology

485 Philosophy of Physics

490 Independent Study

496/596 Ecology and Society

535 Contemporary Political Philosophy

WHAT CAN I EXPECT FROM A PHILOSOPHY COURSE?

Philosophy courses tend to focus on fundamental questions about life, reality, and knowledge. In a philosophy course, students will read thought-provoking works. Students develop skills to interpret controversial points of view charitably, identify unstated assumptions, and distinguish relevant information from unimportant rhetorical flourishes. They are able to assess positions and their alternatives and identify underlying points of agreement and disagreement. Although there may be no single "right" answer, it is not true that any answer is just as good as another. Students are expected to provide reasons that make a clear case for accepting their point of view. Philosophy courses tend to be highly discussion-oriented and writing-intensive, improving clarity of presentation and argumentative rigor. Especially in courses numbered 300 and higher, enrollment is limited to facilitate discussion and provide students opportunities to engage with their peers and the professor. More than most other majors, philosophy encourages students to examine and develop their own points of view, rather than uncritically accept the current state of research. These skills of charitable interpretation and independence of critical thought enable philosophy majors to excel in a variety of career paths and lifelong activities.

PHILOSOPHY COURSES OF INTEREST TO STUDENTS IN COMPUTER SCIENCE:

201 (Introduction to Philosophy) * 206 (Introduction to Logic and Scientific reasoning) * 207 (Introduction to Symbolic Logic) * 230 (Moral Theory and Practice) * 332 (Philosophy of Law) * 330 (Ethical Theory) * 334 (Environmental Ethics) * 336 (Bioethics and Biotechnology) * 343 (Philosophy of Technology) * 364 (God, Minds, and Matter) * 366 (Truth, Belief, and Reason) * 314 (17th Century Philosophy) * 315 (18th Century Philosophy) * 318 (20th and 21st Century Anglo-American Philosophy) * 380 (Philosophy of Science) * 450 (Persons and Causes, Free Will) * 460 (Epistemology and Metaphysics) * 465 (Brains, Minds, and Computers) * 483 (Philosophy of Biology) * 485 (Philosophy of Physics) * 496 (Ecology and Society)

DEGREE REQUIREMENTS

MAJOR IN PHILOSOPHY

A major in philosophy requires 33 credits in philosophy (eleven courses). At least fifteen of these credits shall come from the core curriculum, and at least six credits shall come from courses numbered 400 or above. The core curriculum requires:

One from: 330 (Ethical Theory), 335 (Social and Political Philosophy), or 535 (Contemporary Political Philosophy);

310 (Ancient Philosophy);

Either 314 (17th Century Philosophy) or 315 (18th Century Philosophy);

One from: 364 (God, Minds, and Matter), 366 (Truth, Belief, and Reason), or 380 (Philosophy of Science); and

207 (Introduction to Symbolic Logic)

ADDING PHILOSOPHY AS A SECOND MAJOR

Combining a philosophy major with other majors is a great way to gain knowledge of philosophy and a deeper understanding of the conceptual foundations of the other major. The requirements for philosophy as a second major are the same as the requirements for the major. Philosophy may be designated as the primary or secondary major.

MINOR IN PHILOSOPHY

A minor is philosophy is an excellent complement to any major. The minor in philosophy requires fifteen credits (five courses) in philosophy. At least nine of these credits shall come from courses numbered 300 or above.