Logic and Computation (BS)

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Website: https://www.cmu.edu/dietrich/philosophy/index.html

The Logic and Computation curriculum takes advantage of the preparation provided by the H&SS General Education Program in mathematics, philosophy, psychology, and statistics. It is flexible in that it permits students to focus on any of a number of areas including (but not limited to): computer science, language and information technology, artificial intelligence and cognitive science, logic and the foundations of mathematics, and methodology and philosophy of science.

Students in the program take a common core of courses in logic, methodology, and computer science. The individual focus is achieved by selecting a sequence of four advanced and closely related courses. It is in this area of focus (or specialization) that students write their senior thesis under the supervision of a faculty member.

The resulting education in logic, analytic philosophy, mathematics, statistics, and computer science enables students to pursue professional careers or graduate study. The analytic and communication skills developed in the major support a wide range of career choices, including those among the fields of technology, business, and law. Fields of graduate study for which students are well prepared include computer science, cognitive science, philosophy, logic, and linguistics.

This is a suggested schedule for the first 2 years for a Primary Major. It is also available as an Additional Major and a Minor.

The remainder of the Major and GenEd can be completed in the junior and senior year.

1st semester

- Complete 2: First-Year Writing (FYW)
- 79-104, Global Histories
- 36-200, Reasoning with Data Freshman Seminar
- 99-101, C@CM
- 15-110, Principles of Computing
- xx-xxx, Elective*
- xx-xxx, Elective*

2nd semester

- Complete 2: First-Year Writing (FYW)
- 79-104, Global Histories
- 36-200, Reasoning with Data Freshman Seminar
- 15-112, Fund. of Programming
- 21-127, Concepts of Mathematics
- 80-150, Nature of Reason

3rd semester

- 80-211, Logic and Math. Inquiry
- 15-122, Princ. Imperative Comp.
- xx-xxx, Elective*
- xx-xxx, Elective*
- xx-xxx, Elective*

4th semester

- Logic and Computation Elective
- xx-xxx, Elective*
- xx-xxx, Elective*
- xx-xxx, Elective*

*Elective: This space can be used for a pre-requisite course, another GenEd course, major course, or for a course you are interested in.