Department of Philosophy

David Danks, Department Head
Location: Baker Hall 161
www.cmu.edu/dietrich/philosophy (http://www.cmu.edu/dietrich/philosophy/)

The Department of Philosophy was founded in 1985 and reflects the tradition of philosophy as a central discipline in the humanities. The department has achieved an international reputation through the acclaimed research of its members and its innovative educational programs, not only in traditional topics such as ethics, philosophy of mind, logic, and theory of knowledge, but in such contemporary and applied areas as automated theorem proving, machine learning, the foundations of statistics, causal discovery, forward learning theory, game and decision theory, conflict resolution, and business ethics.

Philosophy thrives through contact with other disciplines. Interdisciplinary work, a traditional strength of the Carnegie Mellon community, is vital to the department and is reflected in the courses we offer, many of which incorporate substantive material from a range of other disciplines. Some courses are actually team-taught with professors from other departments and schools around the university.

Our programs are designed to develop our students' analytical sophistication and their practical and theoretical skills in specializations outside the department (see the sample curricula below). The department welcomes and, indeed, encourages minors and additional majors from other disciplines who are interested in reflecting on the foundation of their own subjects. The department offers two different undergraduate major programs, and jointly sponsors two interdepartmental majors: Ethics, History, and Public Policy (with the Department of History), and Linguistics (with English, Modern Languages, and Psychology):

- the B.A. or B.S. in Ethics, History, and Public Policy (interdisciplinary major with Department of History)
- the B.S. in Logic and Computation
- the B.A. in Philosophy
- the B.A. in Linguistics (interdisciplinary major with Departments of English, Modern Languages, and Psychology)

The major in Logic and Computation is perhaps the most non-traditional of the department’s majors. It offers students a firm background in computer science, together with a solid grounding in logic, philosophy, and mathematics. This reflects the department’s commitment to the use of formal, analytic methods in addressing philosophical issues. A flexible system of electives allows students to focus their efforts in any of a wide range of disciplines, from engineering to the fine arts. As a capstone to the program, students engage in original research in their senior year, and write a thesis under the direction of an advisor.

The department also sponsors five minor programs:

- the minor in Ethics
- the minor in Linguistics
- the minor in Logic and Computation
- the minor in Philosophy
- the minor in Societal & Human Impacts of Future Technologies (SHIFT)

Finally, the department offers two master's programs directly extending the departmental majors. Both programs are coordinated with and build on the undergraduate programs, so that majors can complete the requirements for the master's degree in one additional year:

- the M.S. in Logic and Computation
- the M.A. in Philosophy

The Major in Ethics, History, and Public Policy

Andrew Ramey, Senior Academic Advisor, History
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https://go.oncehub.com/AndrewRamey (https://go.oncehub.com/AndrewRamey/)

Patrick Doyle, Academic Program Manager, Philosophy
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www.cmu.edu/dietrich/ehpp (http://www.cmu.edu/dietrich/ehpp/)

The B.A./B.S. in Ethics, History, and Public Policy, (EHPP) is an interdepartmental major offered jointly by the Departments of History and Philosophy. It prepares students for leadership positions by providing them with a rigorous, interdisciplinary humanistic and social-scientific education. It also serves as an excellent springboard for graduate study in a wide variety of disciplines such as law, public policy, ethics, and advocacy. The program focuses equally on the historical understanding of how modern-day problems have evolved, and the importance of developing clear criteria for ethical decision-making. The capstone project course provides students with the opportunity to engage with real-world policy challenges using the methods, theories, and knowledge that they have gained through the major. Offered jointly by the departments of History and Philosophy, the B.A./B.S. in EHPP encourages specialization, internship experiences, and research in a wide range of policy areas.

Curriculum

Students graduating with a primary major in Ethics, History, and Public Policy may elect to receive either a Bachelor of Arts or a Bachelor of Science Degree (additional requirements apply; see below). Basic requirements include 120 units encompassing 9 units in Economics, 36 units in History, 36 units in Philosophy, 27 units of elective courses, and a 12-unit senior capstone course. This program may also be taken as an additional (e.g., second) major. All courses toward the major must be taken for a letter grade and must be passed with a grade of ‘C’ or better. Students can double count any course for the major with another major or minor, with the exception of Social and Political History, for which a student can double count a maximum of two courses.

I. Foundations of Public Policy

Choose one 9-unit course from the list below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>73-102</td>
<td>Principles of Microeconomics</td>
<td>9</td>
</tr>
<tr>
<td>84-104</td>
<td>Decision Processes in American Political Institutions</td>
<td>9</td>
</tr>
<tr>
<td>84-110</td>
<td>Foundations of Political Economy</td>
<td>9</td>
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</tbody>
</table>

II. History Core

Choose one 9-unit course from each category below:

Policy History (9 units)

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>79-300</td>
<td>History of American Public Policy</td>
<td>9</td>
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U.S. History (9 units)

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<tbody>
<tr>
<td>79-204</td>
<td>American Environmental History</td>
<td>9</td>
</tr>
<tr>
<td>79-231</td>
<td>American Civil Rights Movement: From Garveyism to Black Power</td>
<td>9</td>
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<tr>
<td>79-240</td>
<td>Development of American Culture</td>
<td>9</td>
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<td>79-242</td>
<td>African American History: Reconstruction to the Present</td>
<td>9</td>
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<td>79-244</td>
<td>Women in American History</td>
<td>9</td>
</tr>
<tr>
<td>79-245</td>
<td>Capitalism and Individualism in American Culture</td>
<td>9</td>
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<tr>
<td>79-248</td>
<td>U.S. Constitution &amp; the Presidency</td>
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<tr>
<td>79-249</td>
<td>Politics and Social Change in 20th Century America</td>
<td>9</td>
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<tr>
<td>79-291</td>
<td>American Popular Culture and the Entertainment Business: 1800 to the Present</td>
<td>9</td>
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<tr>
<td>79-310</td>
<td>U. S. Business History: 1870 to the Present</td>
<td>9</td>
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<tr>
<td>79-320</td>
<td>Women, Politics, and Protest</td>
<td>9</td>
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</tbody>
</table>
Non-U.S. History (9 units)
79-202 Flesh and Spirit: Early Modern Europe, 1400-1750 9
79-203 Habsburg Empire to the End of Communism: Central & Eastern Europe (1740-1990) 9
79-205 20th Century Europe 9
79-223 Mexico: From the Aztec Empire to the Drug War 9
79-226 African History: Earliest Times to 1780 9
79-261 The Last Emperors: Chinese History and Society, 1600-1900 9
79-227 Modern Africa: The Slave Trade to the End of Apartheid 9
79-229 The Origins of the Palestinian-Israeli Conflict, 1880-1948 9
79-230 Arab-Israeli Conflict Since 1948 9
79-237 Comparative Slavery 9
79-262 Modern China: From the Birth of Mao ... to Now 9
79-264 Tibet and China: History and Propaganda 6
79-265 Russian History: Tsar, Power, and Rebellion 9
79-266 Russian History and Revolutionary Socialism 9
79-307 Religion and Politics in the Middle East 9

History Elective (9 units)
Take at least 9 additional units in the History Department with course number 79-200 or above. The following courses may not count: 79-400, 79-420, 79-449, 79-491, 79-505, 79-506

III. Philosophy Core 36 units
Choose one 9-unit course from each category below. No more than 9 units at the 100 level may be counted toward the Philosophy Core.

Ethics (9 units)
80-130 Introduction to Ethics 9
80-330 Ethical Theory 9

Political Philosophy (9 units)
80-135 Introduction to Political Philosophy 9
80-335 Social and Political Philosophy 9

Foundations of Social Science (9 units)
80-221 Philosophy of Social Science 9
80-321 Causation, Law, and Social Policy 9
80-324 Philosophy of Economics 9

Applied Philosophy (9 units)
80-136 Social Structure, Public Policy & Ethics 9
80-244 Environmental Ethics 9
80-245 Medical Ethics 9
80-249 AI, Society, and Humanity 9
80-336 Philosophy of Law 9
80-348 Health, Human Rights, and International Development 9
80-447 Global Justice 9

IV. Senior Capstone Project Course 12 units
79-449 EHPP Project Course [cross-listed] 12
80-449 EHPP Project Course 12

The Ethics, History and Public Policy Project Course is required for the Ethics, History and Public Policy major and is taken in the fall semester of the senior year. In this capstone course, Ethics, History and Public Policy majors carry out a collaborative research project that examines a compelling current policy issue that can be illuminated with historical research and philosophical and policy analysis. The students develop an original research report based on both archival and contemporary policy analysis and they present their results to a client organization in the community.

V. Elective Courses 27 units
Choose any three courses (at least 27 units) from any category or categories shown below. Substitution of elective courses that cohere with a student's interest or concentration may be allowed after consultation with and approval from the Academic Program Manager.

Engineering and Public Policy (some courses have prerequisites; see EPP catalog listing)
19-424 Energy and the Environment 9

Business Administration
70-311 Organizational Behavior 9
70-321 Negotiation and Conflict Resolution 9
70-332 Business, Society and Ethics 9
70-364 Business Law 9
70-365 International Trade and International Law 9
70-430 International Management 9

Economics (some courses have prerequisites; see Economics catalog listing)
73-352 Public Economics 9
73-359 Benefit-Cost Analysis 9
73-365 Firms, Market Structures, and Strategy 9
73-372 International Money and Finance 9
73-408 Law and Economics 9
73-427 Sustainability, Energy, and Environmental Economics 9
73-476 American Economic History 9

English
76-492 Rhetoric of Public Policy 9

History
Courses from the EHPP History Core (above) may be taken as electives only if they are not being used to fulfill the core requirement. Double counting is not permitted.
79-233 The United States and the Middle East since 1945 9
79-234 Technology and Society 9
79-240 Development of American Culture 9
79-242 African American History: Reconstruction to the Present 9
79-247 African Americans, Imprisonment, and the Carceral State 9
79-249 Politics and Social Change in 20th Century America 9
79-261 The Last Emperors: Chinese History and Society, 1600-1900 9
79-265 Russian History: Tsar, Power, and Rebellion 9
79-266 Russian History and Revolutionary Socialism 9
79-267 The Soviet Union in World War II: Military, Political, and Social History 9
79-288 Bananas, Baseball, and Borders: Latin America and the United States 9
79-289 Animal Planet: An Environmental History of People and Animals 9
79-298 Guns in American History: Culture, Violence, and Politics 6
79-299 From Newton to the Nuclear Bomb: History of Science, 1750-1950 9
79-301 History of Surveillance: From the Plantation to Data Capitalism 6
79-302 Killer Robots: The Ethics, Law, and Politics of Lethal Autonomous Weapons Systems 6
79-303 Pittsburgh and the Transformation of Modern Urban America 6
79-305 Moneyball Nation: Data in American Life 9
79-315 Thirsty Planet: The Politics of Water in Global Perspective 9
79-320 Women, Politics, and Protest 9
79-322 Stalin and the Great Terror 9
79-325 U.S. Gay and Lesbian History 6
79-331 Body Politics: Women and Health in America 9
79-334 Climate Change and Climate Justice: Global Perspectives 6
79-336 Oil & Water: Middle East Perspectives 6
79-338 History of Education in America 9
79-339 Juvenile Delinquency & Film: From Soul of Youth (1920) to West Side Story (1961) 6
The B.A./B.S. in Ethics, History, and Public Policy may be scheduled as an Additional Major by completing two courses from the list below, or by petitioning. Students may elect to earn a Bachelor of Science rather than a Bachelor of Arts degree by completing two courses from the list below, or by petitioning.

**VI. Bachelor of Science Option**

Students may elect to earn a Bachelor of Science rather than a Bachelor of Arts degree by completing two courses from the list below, or by petitioning the Director of EHPP to accept equivalent courses as substitutions. The above sample program is presented as a two-year (junior-senior year) plan for completing EHPP major requirements. It's purpose is to show that this program can be completed in as few as two years; not that it must be. Students may enter the EHPP major, and begin major course requirements, as early as the start of the sophomore year, or even in the first year. Students should consult their advisor when planning their program.

**The Major in Linguistics**

Patrick Doyle, Academic Program Manager

Location: Baker Hall 161A

pdoyle2@andrew.cmu.edu

www.cmu.edu/dietrich/linguistics (http://www.cmu.edu/dietrich/linguistics/)

Linguistics is the scientific study of human language. The central goal of the Linguistics Major is to provide students with the analytical skills and linguistic concepts needed to understand language scientifically, whether formally, as researchers, or informally, as participants in daily linguistic interactions. The foundation of the Linguistics Major is a set of rigorous core courses, informed by contemporary approaches to the study of linguistic form and meaning. The Core courses cover the principal domains of linguistic analysis: phonetics and phonology, syntax, and meaning. Students then move on to the Extended Core, which includes more advanced courses as well as courses on a wider range of topics, such as intonation and language variation. These courses are supplemented by a wide-ranging set of electives including linguistically relevant courses taught in other departments. Primary majors complete their course of study with a Senior Thesis, a semester-long research project carried out independently with one-on-one guidance from a member of the linguistics faculty.

**Curriculum**

The Linguistics primary major requires a total of 12 courses plus a senior thesis. The Linguistics additional major requires a total of 13 courses (senior thesis not required). This includes 2 semesters of sequential language study for all majors. At least three courses (not including specific language courses) must be at the 300-level or higher. All courses counted towards the major must be taken for a letter grade and passed with a grade of 'C' or above. Students may double count any course for the major simultaneously with another major or minor.

**Linguistics Core (36 units)**

Complete the following requirements.

80-180  Nature of Language  9
80-282  Phonetics and Phonology I  9
80-280  Linguistic Analysis  9
or 80-285  Natural Language Syntax  9
80-381  Meaning in Language  9
or 80-383  Language in Use  9

**Extended Core (27 units)**

Choose three courses (27 units) from Extended Core and/or additional courses from Linguistics Core.

80-283  It Matters How You Say It  9
80-284  Invented Languages  9
80-286  Words and Word Formation: Introduction to Morphology  9
80-287  Language Variation and Change  9
80-288  Intonation: Transcription and Analysis  9
80-382  Phonetics and Phonology II  9
80-384  Linguistics of Turkic Languages  9
80-385  Linguistics of Germanic Languages  9

**Additional Major**

The B.A./B.S. in Ethics, History, and Public Policy may be scheduled as an additional major in consultation with the Director of Ethics, History, and Public Policy.
Students must successfully complete 2 semesters of foreign language study in a single language (e.g. 100 & 200 level).

**Electives**

Primary majors choose three additional electives (27 or more units). Additional majors choose four additional electives (36 or more units).

Primary majors: see thesis requirement below.

These Electives can be additional courses from the Core or Extended Core courses listed above, the electives list below, or any other course which is approved by the Academic Program Manager as a linguistics elective. Listed below are the additional electives taught on a regular basis. Additional appropriate courses are offered irregularly or on a one-off basis. The Academic Program Manager will provide students with a list of possible electives each semester, and will assist students in selecting electives which are consistent with their goals and interests.

**Philosophy**

- 80-380 Philosophy of Language 9
- 80-484 Language and Thought 9

**English**

- 76-318 Communicating in the Global Marketplace 9
- 76-325 Intertextuality 9
- 76-385 Introduction to Discourse Analysis 9
- 76-386 Language & Culture 9
- 76-389 Rhetorical Grammar 9

**Modern Languages**

- 82-283 Language Diversity & Cultural Identity 9
- 82-304 French & Francophone Sociolinguistics 9
- 82-305 French in its Social Contexts 9
- 82-373 Structure of the Japanese Language 9
- 82-383 Second Language Acquisition: Theories and Research 9
- 82-585 Topics in Second Language Acquisition 9

**Psychology**

- 85-354 Infant Language Development 9
- 85-421 Language and Thought 9

**Language Technologies Institute**

- 11-411 Natural Language Processing 12
- 11-492 Speech Processing 12
- 11-422 Grammar Formalisms 9

Note: all 11-xxx courses have significant Computer Science prerequisites. Interested students should check with the course instructor and with the Linguistics Academic Program Manager before registering.

**SENIOR THESIS [PRIMARY MAJORS ONLY]**

Primary majors must complete a senior thesis (a workload equivalent to a 12-unit course) 80-595 Senior Thesis. Topics must be approved by an advisor, who will work with the student and guide the thesis project. Students are responsible for identifying their topic and securing their thesis advisor. Students should work with the Academic Program Manager of the major to begin the process of identifying their thesis topic and advisor during the fall of their senior year at the latest. Students will be required to submit a written proposal of their thesis project, signed by their thesis faculty advisor, before the end of the semester preceding that in which the thesis research will be conducted.

**Additional Major in Linguistics**

The Linguistics additional major requires a total of 13 courses. This includes 2 semesters of language study for all majors. At least three courses (not including specific language courses) must be at the 300-level or higher. Additional majors are not required to write a thesis but must take four electives (36 or more units). All courses counted towards the major must be taken for a letter grade and passed with a grade of 'C' or above. Students may double count any course for the major simultaneously with another major or minor. If you are interested in obtaining an additional major in Linguistics, please reach out to the Academic Program Manager, Philosophy Department.

**The Major in Logic and Computation**

Patrick Doyle, Academic Program Manager
Location: Baker Hall 161A
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www.cmu.edu/dietrich/philosophy/undergraduate/logic-and-computation
(http://www.cmu.edu/dietrich/philosophy/undergraduate/logic-and-computation/)

The Bachelor of Science in Logic and Computation curriculum takes advantage of the preparation provided by the Dietrich College 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;
- methodology and philosophy of science.

**Curriculum**

The course requirements for the major consist of seven core courses (including the Senior Thesis) and four electives. The core courses provide comprehensive background in logic, computability, and analytic philosophy.

Students in their first year and sophomore year, are expected to take three courses that provide preparation in computer science, mathematics, and statistics. Four advanced electives are chosen in the area of focus, as described below in the sample curricula, and should support independent research towards fulfilling the senior thesis requirement. In their senior year, Primary and Additional Majors in Logic and Computation will engage in original research under the supervision of a faculty advisor in 80-595 Senior Thesis (a workload equivalent of 12 units). Students are responsible for identifying a thesis topic and securing a faculty advisor prior to the start of the semester in which they plan to complete the thesis. Note: Students should work with the Academic Program Manager during their junior year to begin the process of identifying their topic and potential advisors. However, with suitable planning and advice from the Academic Program Manager, it is possible to complete the program in two years, beginning in the junior year.

All courses, if taken at Carnegie Mellon University, must be taken for a letter grade and passed with a grade of ‘C’ or above. Students may double count any course for the major with another major or minor.

**Prerequisites**

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<tbody>
<tr>
<td>80-150</td>
<td>Nature of Reason</td>
</tr>
<tr>
<td>80-211</td>
<td>Logic and Mathematical Inquiry</td>
</tr>
<tr>
<td>80-310</td>
<td>Formal Logic</td>
</tr>
<tr>
<td>80-311</td>
<td>Undecidability and Incompleteness</td>
</tr>
<tr>
<td>15-122</td>
<td>Principles of Imperative Computation</td>
</tr>
<tr>
<td>15-150</td>
<td>Principles of Functional Programming</td>
</tr>
<tr>
<td>80-595</td>
<td>Senior Thesis</td>
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**Logic and Computation Core**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>15-112</td>
<td>Fundamentals of Programming and Computer Science</td>
</tr>
<tr>
<td>21-127</td>
<td>Concepts of Mathematics</td>
</tr>
<tr>
<td>36-200</td>
<td>Reasoning with Data</td>
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<td>36-201</td>
<td>Statistical Reasoning and Practice</td>
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**Logic and Computation Electives**

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<tr>
<td>80-308</td>
<td>Philosophy of Language</td>
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<td>80-484</td>
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<td>11-411</td>
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Note: Students should complete this prerequisite before their junior year.

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Note: Students should complete before their junior year.
and above, must be selected in consultation with the Academic Program Manager.

**Sample Curricula**

Below are five samples of Logic and Computation curricula (beyond the core courses), each reflecting a different emphasis: Computer Science, Language and Information Technology, Artificial Intelligence and Cognitive Science, Logic and the Foundations of Mathematics, and Methodology.

**Sample 1.**
A student interested in **Computer Science** might take the following courses:

- 80-315 Modal Logic
- 80-413 Category Theory
- 15-312 Foundations of Programming Languages
- 15-317 Constructive Logic

**Sample 2.**
A student interested in **Language and Information Technology** might take the following courses:

- 80-280 Linguistic Analysis
- 80-281 Language and Thought
- 80-381 Meaning in Language
- 80-383 Language in Use
- 80-580 Seminar on the Philosophy of Language

Note: Students who wish to pursue the M.S. program in Language and Information Technology (https://lti.cs.cmu.edu/mit/), at Carnegie Mellon University, should consider this specialized track.

**Sample 3.**
A student interested in **Artificial Intelligence and Cognitive Science** might take the following courses:

- 80-249 AI, Society, and Humanity
- 80-314 Causal Discovery, Statistics, and Machine Learning
- 80-315 Modal Logic
- 80-411 Proof Theory
- 85-412 Cognitive Modeling

Note: If you are a Cognitive Science (https://www.cmu.edu/dietrich/psychology/undergraduate/prospective-students/academics/cognitive-science/) major (Department of Psychology) this additional major would complement your coursework.

**Sample 4.**
A student interested in **Logic and the Foundations of Mathematics** might consider the following courses:

- 80-254 Analytic Philosophy
- 80-312 Mathematical Revolutions
- 80-411 Proof Theory
- 80-413 Category Theory

**Sample 5.**
A student interested in **Methodology** might consider the following courses:

- 80-220 Philosophy of Science
- 80-221 Philosophy of Social Science
- 80-321 Causation, Law, and Social Policy
- 36-309 Experimental Design for Behavioral & Social Sciences

**Additional major in Logic and Computation**

The Logic and Computation major is also suitable as an additional major for students in Dietrich College or for students in other colleges within the University. Non-Dietrich students interested in an additional major in Logic and Computation need to take only those courses in the Dietrich College General Education Program that are prerequisites to courses required in the major; all other Dietrich College General Education requirements are waived for these students. Depending on the student's background, the requirements of the additional major in Logic and Computation can be fulfilled with as few as five additional courses. The Philosophy Department does not limit the number of courses that can be counted for other majors and minors around the university. In their senior year, the additional major in Logic and Computation will write a thesis under the supervision of a faculty advisor.

**The M.S. Program in Logic, Computation & methodology**

The Department of Philosophy also offers a graduate M.S. degree in Logic and Computation & Methodology, which culminates with the writing of a master's thesis. It is ordinarily a two-year program, but students in the Logic and Computation major are able to complete the additional requirements in one year. Interested students in the 5th-year Master's program (https://www.cmu.edu/dietrich/philosophy/graduate/5th-year-masters.html) and Science in Logic, Computation & Methodology, should contact the Academic Program Manager for more information on how to apply.

**The Major in Philosophy**

Patrick Doyle, Academic Program Manager
Location: Baker Hall 161A
pdoyle2@andrew.cmu.edu (pdoyle2@andrew.cmu.edu)  
www.cmu.edu/dietrich/philosophy/undergraduate/philosophy (http://www.cmu.edu/dietrich/philosophy/undergraduate/philosophy/)

The Major in Philosophy is intended to be flexible and to facilitate additional majors in other fields (including majors with a strong professional focus). It provides students with a broad humanities education and sharpens their analytical skills. We encourage, but do not require, students to choose a thematic concentration through their electives. Sample curricula emphasizing Pre-Law, Metaphysics and Epistemology, Ethics and Social Philosophy, and Philosophy of Mind are suggested below. However, alternative emphases can be proposed and approved by the Academic Program Manager. The Major in Philosophy is a B.A. degree.

**Curriculum**

In addition to the general education requirements for the student's college, Philosophy primary majors and additional majors must complete 80-100 **Introduction to Philosophy** and nine Philosophy courses in the Areas listed below. The 80-100 Introduction to Philosophy requirement must be fulfilled before the first semester of the junior year. Only two of the remaining nine courses may be at the 100-level, and two of the nine courses must be at the 300-level or higher. All ten courses, if taken at CMU, must be taken for a letter grade and passed with a grade of 'C' or above. An 80-100 Introduction to Philosophy skills test may be substituted with permission of the Academic Program Manager. Students are to choose one course out of each of the Areas 1-4, two courses out of Area 5, and may freely select three courses in Area 6. Students may double count any course for the major with another major or minor. As per the requirement of Dietrich College, a student's Grand Challenge First-Year Seminar course may not count toward the fulfillment of the major requirements.

**Introduction to Philosophy** 9 units

Area 1: Values and Normative Theory 9 units

One of the following:

- 80-130 Introduction to Ethics 9
- 80-135 Introduction to Political Philosophy 9
- 80-136 Social Structure, Public Policy & Ethics 9
- 80-244 Environmental Ethics 9
- 80-245 Medical Ethics 9
- 80-246 Moral Psychology 9
- 80-248 Engineering Ethics 9
- 80-249 AI, Society, and Humanity 9
- 80-330 Ethical Theory 9
- 80-335 Social and Political Philosophy 9
- 80-336 Philosophy of Law 9
- 80-348 Health, Human Rights, and International Development 9
- 80-430 Ethics and Medical Research 9
- 80-447 Global Justice 9

Area 2: Philosophy of Mind/Language/Metaphysics 9 units

One of the following:

- 80-180 Nature of Language 9
- 80-270 Problems of Mind and Body: Meaning and Doing 9
- 80-271 Philosophy and Psychology 9
- 80-276 Philosophy of Religion 9
Sample Curricula

Here are four sample curricula, reflecting different emphases.

1. For an emphasis on Law & Social Policy, a student might take:

Area 1
80-335 Social and Political Philosophy 9
80-180 Nature of Language 9
80-211 Logic and Mathematical Inquiry 9
Area 3
80-208 Critical Thinking 9
80-150 Nature of Reason 9
80-250 Ancient Philosophy 9
Area 6
80-321 Causation, Law, and Social Policy 9
80-348 Health, Human Rights, and International Development 9
80-447 Global Justice 9

2. For an emphasis on Philosophy of Science, a student might take:

Area 1
80-136 Social Structure, Public Policy & Ethics 9
Area 2
80-371 Philosophy of Perception 9
Area 3
80-211 Logic and Mathematical Inquiry 9
Area 4
80-220 Philosophy of Science 9
or 80-221 Philosophy of Social Science 9
Area 5
80-250 Ancient Philosophy 9
80-226 Revolutions in Science 9
Area 6
80-150 Nature of Reason 9
80-221 Philosophy of Social Science 9
80-322 Philosophy of Physics 9
80-323 Philosophy of Biology 9

3. For an emphasis on Ethics and Social Philosophy, a student might take:

Area 1
Area 2
80-276 Philosophy of Religion 9
Area 3
80-110 Nature of Mathematical Reasoning 9
Area 4
80-221 Philosophy of Social Science 9
or 80-321 Causation, Law, and Social Policy 9
Area 5
80-250 Ancient Philosophy 9

4. For an emphasis on Philosophy of Mind, a student might take:

Area 6
80-321 Causation, Law, and Social Policy 9

Additional Major
Students who wish to pursue an additional major in Philosophy must fulfill the same departmental requirements as primary majors in Philosophy. Students can double count any course for the major with another major or minor.

The M.A. Program in Philosophy
The M.A. Program in Philosophy provides exciting opportunities to pursue postgraduate studies in Philosophy for students with a degree in Philosophy who wish to continue their work in a more focused and advanced way, as well as for students with a degree in another field who wish to add a concentration in Philosophy. Two areas of specialization are offered in line with the distinctive strengths of the Philosophy Department that are not reflected in its other graduate degree programs, namely Ethics, Social and Political Philosophy, and Philosophy of Science. The latter specialization offers emphasis in Mathematics, Psychology, Physics, and the Social Sciences.

The course of study for the 5 (https://www.cmu.edu/dietrich/philosophy/graduate/5th-year-masters.html) year M.A. in Philosophy is very flexible, and can be tailored to a student’s interests and background. For more information, please contact the Academic Program Manager.

Philosophy Department Minors
The Philosophy Department offers five minors: Ethics, Linguistics, Logic & Computation, Philosophy, and Societal & Human Impacts of Future Technologies (SHIFT). The requirements are designed to be flexible and to allow students to tailor courses to their special interests, while providing some breadth.

The Minor in Ethics
The Minor in Ethics introduces students to central ethical concepts and theories proposed and defended by the great philosophers of the past; it provides an understanding of how these theories and concepts can be applied to practical problems. This background in ethical theory and its applications should help students to respond more sensitively and appropriately to the new and unavoidable ethical problems that technologies, businesses, unions, and branches of government must face.

Ethics minors must complete five philosophy courses in the areas listed below. All five required courses must be taken for a letter grade and passed with a grade of ‘C’ or above, except 80-294 Ethics Internship or 80-500 Undergraduate Internship which may be taken pass/fail.

Ethics Core Courses 27 units
Complete three courses from any of the following areas with at least two courses at the 200-level or higher.

Area 1
80-130 Introduction to Ethics 9
80-135 Introduction to Political Philosophy 9
80-136 Social Structure, Public Policy & Ethics 9
80-244 Environmental Ethics 9
80-245 Medical Ethics 9
80-246 Moral Psychology 9
80-247 Nietzsche 9
80-371 Philosophy of Perception 9
80-521 Seminar on Formal Epistemology: Network Var. Epistemology

Area 2
80-270 Problems of Mind and Body: Meaning and Doing 9
80-211 Logic and Mathematical Inquiry 9
80-201 Knowledge and Justified Belief 9
80-251 Modern Philosophy 9

Area 3
80-257 Nietzsche 9

Area 4
Select 2 from the following 3 options
80-280 Phonetics and Phonology I 9
80-281 Intonation: Transcription and Analysis 9
80-282 Meaning in Language 9
80-381 Meaning in Language 9 or 80-383 Language in Use

Area 5
80-248 Engineering Ethics 9
80-249 AI, Society, and Humanity 9
80-330 Ethical Theory 9
80-335 Social and Political Philosophy 9
80-336 Philosophy of Law 9
80-348 Health, Human Rights, and International Development 9
80-431 Meta-ethics 9
80-447 Global Justice 9
80-495 Independent Study Var.

The Minor in Linguistics
Linguistics is the scientific study of human language. The central goal of the Linguistics Program is to provide students with the analytical skills and linguistic concepts needed to understand language scientifically, whether formally, as researchers, or informally, as participants in daily linguistic interactions. The foundation of the Linguistics Minor is a set of rigorous core courses, informed by contemporary approaches to the study of linguistic form and meaning. The Core courses cover the principal domains of linguistic analysis: phonetics and phonology, syntax, and meaning. Students then move on to the Extended Core, which includes more advanced courses as well as courses on a wider range of topics, such as intonation and language variation. All courses counted towards the minor must be taken for a letter grade and passed with a grade of ‘C’ or above.

Core (27 units)
Required
80-180 Nature of Language 9
Select 2 from the following 3 options
80-280 Phonetics and Phonology I 9
80-281 Meaning in Language 9 or 80-383 Language in Use
80-282 Meaning in Language 9
80-285 Natural Language Syntax 9

Extended Core: Choose 3 courses (27 units) from the Extended Core and/or additional courses from Core.

Extended Core
80-283 It Matters How You Say It 9
80-284 Invented Languages 9
80-286 Words and Word Formation: Introduction to Morphology 9
80-287 Language Variation and Change 9
80-288 Intonation: Transcription and Analysis 9
80-382 Phonetics and Phonology II 9
80-383 Linguistics of Turkic Languages 9
80-385 Linguistics of Germanic Languages 9
80-388 Linguistic Typology: Diversity and Universals 9
80-488 Acoustics of Human Speech: Theory, Data, and Analysis 9

The Minor in Philosophy of Mind
Mind is the cognitive capacity that enables us to have conscious experiences and to think, reason, and make decisions. The Minor in Philosophy of Mind introduces students to the central questions in the philosophy of mind, such as the nature of consciousness, the relationship between mind and body, and the possibility of minds other than human.

Area 6
80-321 Causation, Law, and Social Policy 9
80-322 Fundamentals of Ethical Theory 9
80-323 Theories of Knowledge 9
80-324 Theories of Mind 9
80-325 Theories of Action 9
80-326 Theories of Language 9
80-327 Theories of Perception 9
80-328 Theories of Time 9
80-329 Theories of Value 9

Area 7
80-248 Engineering Ethics 9
80-249 AI, Society, and Humanity 9
80-330 Ethical Theory 9
80-335 Social and Political Philosophy 9
80-336 Philosophy of Law 9
80-348 Health, Human Rights, and International Development 9
80-431 Meta-ethics 9
80-447 Global Justice 9
80-495 Independent Study Var.

The Minor in Ethics
Ethics is a branch of philosophy that deals with questions of right and wrong, moral principles and obligations, and moral conduct. The Minor in Ethics introduces students to the central ethical concepts and theories proposed and defended by the great philosophers of the past; it provides an understanding of how these theories and concepts can be applied to practical problems. This background in ethical theory and its applications should help students to respond more sensitively and appropriately to the new and unavoidable ethical problems that technologies, businesses, unions, and branches of government must face.

Ethics minors must complete five philosophy courses in the areas listed below. All five required courses must be taken for a letter grade and passed with a grade of ‘C’ or above, except 80-294 Ethics Internship or 80-500 Undergraduate Internship which may be taken pass/fail.

Ethics Core Courses 27 units
Complete three courses from any of the following areas with at least two courses at the 200-level or higher.

Area 1
80-130 Introduction to Ethics 9
80-135 Introduction to Political Philosophy 9
80-136 Social Structure, Public Policy & Ethics 9
80-244 Environmental Ethics 9
80-245 Medical Ethics 9
80-246 Moral Psychology 9

Area 2
80-201 Knowledge and Justified Belief 9

Area 3
80-257 Nietzsche 9

Area 4
Select 2 from the following 3 options
80-280 Phonetics and Phonology I 9
80-281 Intonation: Transcription and Analysis 9
80-282 Meaning in Language 9
80-381 Meaning in Language 9 or 80-383 Language in Use

Area 5
80-248 Engineering Ethics 9
80-249 AI, Society, and Humanity 9
80-330 Ethical Theory 9
80-335 Social and Political Philosophy 9
80-336 Philosophy of Law 9
80-348 Health, Human Rights, and International Development 9
80-431 Meta-ethics 9
80-447 Global Justice 9
80-495 Independent Study Var.
The Minor in Logic and Computation

The Minor in Logic and Computation provides students with general course work in logic, the theory of computation, and philosophy. Students must complete six courses, among them the following three core courses. All courses counted towards the minor must be taken for a letter grade and passed with a grade of ‘C’ or above.

Logic and Computation Core Courses 27 units
80-150 Nature of Reason 9
80-211 Logic and Mathematical Inquiry 9
or 80-210 Logic and Proofs 9
80-310 Formal Logic 9
or 80-311 Undecidability and Incompleteness 9

Logic and Computation Electives 27 units
Students must take two courses in the Philosophy Department at the 300-level or higher, in subjects related to logic and computation. And an additional course at the 300-level or higher in an area that uses logical and computational tools, such as philosophy, computer science, linguistics, mathematics, psychology, or statistics. The choice of electives must be approved by the Academic Program Manager.

The Minor in Philosophy

The Minor in Philosophy requires five courses and gives students a broad philosophical foundation, requiring one course in Logic/Methodology, two courses in the History of Philosophy and two Philosophy electives. The minor complements any primary major from around the University. All courses counted towards the minor must be taken for a letter grade and passed with a grade of ‘C’ or above.

Logic/Methodology Requirements 9 units
Complete one course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-110 Nature of Mathematical Reasoning</td>
<td>9</td>
</tr>
<tr>
<td>80-210 Logic and Proofs</td>
<td>9</td>
</tr>
<tr>
<td>80-211 Logic and Mathematical Inquiry</td>
<td>9</td>
</tr>
<tr>
<td>80-214 Computing, AI, and Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-220 Philosophy of Science</td>
<td>9</td>
</tr>
<tr>
<td>80-221 Philosophy of Social Science</td>
<td>9</td>
</tr>
<tr>
<td>80-222 Measurement and Methodology</td>
<td>9</td>
</tr>
<tr>
<td>80-223 Causality and Probability</td>
<td>9</td>
</tr>
<tr>
<td>80-226 Revolutions in Science</td>
<td>9</td>
</tr>
<tr>
<td>80-310 Formal Logic</td>
<td>9</td>
</tr>
<tr>
<td>80-311 Undecidability and Incompleteness</td>
<td>9</td>
</tr>
<tr>
<td>80-312 Mathematical Revolutions</td>
<td>9</td>
</tr>
<tr>
<td>80-314 Causal Discovery, Statistics, and Machine Learning</td>
<td>9</td>
</tr>
<tr>
<td>80-315 Modal Logic</td>
<td>9</td>
</tr>
<tr>
<td>80-321 Causation, Law, and Social Policy</td>
<td>9</td>
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<tr>
<td>80-322 Philosophy of Physics</td>
<td>9</td>
</tr>
<tr>
<td>80-323 Philosophy of Biology</td>
<td>9</td>
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<tr>
<td>80-324 Philosophy of Economics</td>
<td>9</td>
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<tr>
<td>80-411 Proof Theory</td>
<td>9</td>
</tr>
<tr>
<td>80-413 Category Theory</td>
<td>9</td>
</tr>
<tr>
<td>80-513 Seminar on Philosophy of Mathematics</td>
<td>9</td>
</tr>
<tr>
<td>80-514 Categorical Logic</td>
<td>9</td>
</tr>
<tr>
<td>80-515 Seminar on the Foundations of Statistics</td>
<td>9</td>
</tr>
<tr>
<td>80-516 Causality and Machine Learning</td>
<td>Var.</td>
</tr>
<tr>
<td>80-520 Seminar on Philosophy Science</td>
<td>9</td>
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</tbody>
</table>

History of Philosophy Requirements 18 units
Complete two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-150 Nature of Reason</td>
<td>9</td>
</tr>
<tr>
<td>80-226 Revolutions in Science</td>
<td>9</td>
</tr>
<tr>
<td>80-250 Ancient Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-251 Modern Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-252 Kant</td>
<td>9</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-253 Continental Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-254 Analytic Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-255 Pragmatism</td>
<td>9</td>
</tr>
<tr>
<td>80-256 Modern Moral Philosophy</td>
<td>9</td>
</tr>
<tr>
<td>80-257 Nietzsche</td>
<td>9</td>
</tr>
<tr>
<td>80-261 Experience, Reason, and Truth</td>
<td>9</td>
</tr>
<tr>
<td>80-263 Approaching Chinese Philosophy: Basic Texts and Implications</td>
<td>9</td>
</tr>
<tr>
<td>80-358 Hume</td>
<td>9</td>
</tr>
<tr>
<td>80-362 Russell</td>
<td>9</td>
</tr>
<tr>
<td>80-363 19th Century Foundations of Science</td>
<td>9</td>
</tr>
</tbody>
</table>

Philosophy Electives 18 units
Students must complete 18 units in the Philosophy department at the 200-level or higher.

The Minor in Societal & Human Impacts of Future Technologies (SHIFT)

Students pursuing the SHIFT minor will gain the skills, knowledge, and experience to successfully take on roles in integrated, multidisciplinary analyses of current and near-future computational technologies. The SHIFT minor requires eight total courses, with no limit to double-counting with other majors or minors. All courses counted towards the minor must be taken for a letter grade and passed with a grade of ‘C’ or above.

Core Courses (2 courses, 18 units total)
80-249 AI, Society, and Humanity 9
80-445 Shift Capstone Experience Var.

Area Courses (6 courses, 54 units total)
Note: Five of the six Area Courses must be taken in different departments

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-317 Design of Artificial Intelligence Products</td>
<td>12</td>
</tr>
<tr>
<td>05-318 Human AI Interaction</td>
<td>12</td>
</tr>
<tr>
<td>05-320 Social Web</td>
<td>12</td>
</tr>
<tr>
<td>05-452 Service Design</td>
<td>12</td>
</tr>
<tr>
<td>15-110 Principles of Computing</td>
<td>10</td>
</tr>
<tr>
<td>15-112 Fundamentals of Programming and Computer Science</td>
<td>12</td>
</tr>
<tr>
<td>16-467 Human Robot Interaction</td>
<td>12</td>
</tr>
<tr>
<td>17-303 Cryptocurrencies, Blockchains and Applications</td>
<td>Var.</td>
</tr>
<tr>
<td>17-313 Foundations of Software Engineering</td>
<td>12</td>
</tr>
<tr>
<td>17-331 Information Security, Privacy, and Policy</td>
<td>12</td>
</tr>
<tr>
<td>17-333 Privacy Policy, Law, and Technology</td>
<td>9</td>
</tr>
<tr>
<td>17-355 Program Analysis</td>
<td>12</td>
</tr>
<tr>
<td>36-201 Statistical Reasoning and Practice</td>
<td>9</td>
</tr>
<tr>
<td>36-202 Methods for Statistics &amp; Data Science</td>
<td>9</td>
</tr>
<tr>
<td>67-250 The Information Systems Milieux</td>
<td>9</td>
</tr>
<tr>
<td>88-300 Programming and Data Analysis for Social Scientists</td>
<td>9</td>
</tr>
</tbody>
</table>

Social & Behavioral Sciences area (18 units)
Courses that build basic technological competence, and teach concepts & frameworks that provide high-level understanding of computational technologies, including their possibilities and limits.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>05-413 Human Factors</td>
<td>9</td>
</tr>
<tr>
<td>17-224 Influence, Persuasion, and Manipulation Online</td>
<td>9</td>
</tr>
<tr>
<td>36-200 Reasoning with Data</td>
<td>9</td>
</tr>
<tr>
<td>70-311 Organizational Behavior</td>
<td>9</td>
</tr>
<tr>
<td>70-321 Negotiation and Conflict Resolution</td>
<td>9</td>
</tr>
<tr>
<td>70-341 Team Dynamics and Leadership</td>
<td>9</td>
</tr>
<tr>
<td>73-102 Principles of Microeconomics</td>
<td>9</td>
</tr>
</tbody>
</table>
The Senior Honors Program

The Dietrich College Senior Honors Program ([https://www.cmu.edu/dietrich/students/undergraduate/programs/senior-honors/](https://www.cmu.edu/dietrich/students/undergraduate/programs/senior-honors/)) provides recognition of outstanding performance by students majoring in Philosophy, Logic and Computation, Linguistics, or Ethics, History, and Public Policy. Students have the opportunity to develop their skills and to apply their knowledge through completion of an honors thesis in their senior year. In late spring, Dietrich College Senior Honors students are required to fulfill a presentation requirement by participating in the University’s Meeting of the Minds Undergraduate Research Symposium ([https://www.cmu.edu/umd/omu/](https://www.cmu.edu/umd/omu/)). This may be done as a poster presentation, or formal presentation, about their thesis projects. By completing the thesis, students earn 18 units of credit and qualify for graduation with College Honors.

To qualify for the honors program, students must maintain a quality point average of at least 3.50 in the major and 3.25 overall, and be invited by the department to become a participant.

Undergraduate Research Fellows

Qualified upper level undergraduates, preferably majors in one of the Philosophy Department’s programs, may apply to serve in their junior or senior years as fellows in the Laboratory for Symbolic and Educational Computing (LSEC). Applications are reviewed in the fall. Visit LSEC from the Department’s website at [www.cmu.edu/dietrich/philosophy/research/lsec/fellowships.html](http://www.cmu.edu/dietrich/philosophy/research/lsec/fellowships.html), or contact Professors Joseph Ramsey or Wilfried Sieg for additional information.

Faculty

JEREMY AVIGAD, Professor of Philosophy – Ph.D., University of California, Berkeley; Carnegie Mellon, 1996–

STEVEN AWODEY, Professor of Philosophy – Ph.D., University of Chicago; Carnegie Mellon, 1997–

ADAM BJÖRNDAHL, Associate Professor of Philosophy – Ph.D., Cornell University; Carnegie Mellon, 2014–

SIMON CULLEN, Assistant Teaching Professor of Philosophy – Ph.D., Princeton University; Carnegie Mellon, 2018–

DAVID DANKS, L.L. Thurstone Professor of Philosophy & Psychology, Department Head – Ph.D., University of California, San Diego; Carnegie Mellon, 2003–

B. R. GEORGE, Assistant Professor of Philosophy – Ph.D., University of California, Los Angeles; Carnegie Mellon, 2014–

MARALEE HARRELL, Teaching Professor of Philosophy – Ph.D., University of California, San Diego; Carnegie Mellon, 2003–

KEVIN T. KELLY, Professor of Philosophy – Ph.D., University of Pittsburgh; Carnegie Mellon, 1985–

ALEX JOHN LONDON, Clara L. West Professor of Ethics and Philosophy – Ph.D., University of Virginia; Carnegie Mellon, 2000–

JOSEPH RAMSEY, Special Faculty and Director of Research Computing – Ph.D., University of California, Pittsburgh; Carnegie Mellon, 2006–

RICHARD SCHEINES, Professor of Philosophy, Bess Family Dean’s Chair of the Dietrich College of Humanities and Social Sciences – Ph.D., University of Pittsburgh; Carnegie Mellon, 1987–

TEDDY I. SEIDENFELD, Herbert A. Simon Professor of Philosophy and Statistics – Ph.D., Columbia University; Carnegie Mellon, 1985–

WILFRIED SIEG, Patrick Suppes Professor of Philosophy – Ph.D., Stanford University; Carnegie Mellon, 1985–

MANDY SIMONS, Professor of Philosophy – Ph.D., Cornell University; Carnegie Mellon, 1998–

JOEL SMITH, Distinguished Career Teaching Professor of Philosophy – Ph.D., University of Pittsburgh; Carnegie Mellon, 2000–

PETER L. SPIRTES, Professor of Philosophy – Ph.D., University of Pittsburgh; Carnegie Mellon, 1987–

WILLIAM SIEG, Assistant Teaching Professor of Philosophy – Carnegie Mellon-Qatar – Ph.D., Carnegie Mellon University; Carnegie Mellon, 2019–

DANIELLE WENNER, Associate Professor of Philosophy – Ph.D., Rice University; Carnegie Mellon, 2013–

THOMAS WERNER, Associate Teaching Professor of Philosophy – Ph.D., Rutgers University; Carnegie Mellon, 2003–

WAYNE WU , Associate Professor, Philosophy and the Neuroscience Institute – Ph.D., University of California, Berkeley; Carnegie Mellon, 2010–
FRANCESCA ZAFFORA BLANDO, Assistant Professor of Philosophy - Ph.D., Stanford University; Carnegie Mellon, 2020–

KUN ZHANG, Associate Professor of Philosophy – Ph.D., The Chinese University of Hong Kong; Carnegie Mellon, 2015–

KEVIN ZOLLMAN, Professor of Philosophy – Ph.D., University of California, Irvine; Carnegie Mellon, 2009–

Adjunct Faculty
FRANK PFENNING, Professor, Computer Science Department - Ph.D., Carnegie Mellon University; Carnegie Mellon, 2002–

Special Faculty
CHRISTINA BJORNDAHL, Teaching Instructor - Ph.D., Cornell University; Carnegie Mellon, 2014–

DERRICK GRAY, Teaching Instructor - Ph.D., Rice University; Carnegie Mellon, 2013–

Emeriti Faculty
ROBERT CAVALIER, Teaching Professor (Emeritus) – Ph.D., Duquesne University; Carnegie Mellon, 1987–

CLARK GLYMOUR, Alumni University Professor of Philosophy (Emeritus) – Ph.D., Indiana University; Carnegie Mellon, 1984–

DANA S. SCOTT, Hillman University Professor of Mathematical Logic, Computer Science and Philosophy (Emeritus) – Ph.D., Princeton University; Carnegie Mellon, 1981–