Philosophy

General Information

Philosophy continues to keep alive the tradition begun by Socrates, Plato, and Aristotle of critically examining one's most cherished assumptions. Moreover, it deals with questions that are common to several areas of inquiry, such as art, ethics, the social sciences, the natural sciences, and the various professions. The study of philosophy also encourages logical precision, a heightened awareness of assumptions used in any discussion, and an attitude of both open-mindedness and responsible criticism toward new and unusual ideas. These skills are particularly useful for students planning careers in law, business, computer science, writing, or other fields requiring such disciplines of mind. For these reasons many students have found it useful to combine a major in another field with a major in philosophy. To accommodate such students, the department has a special program for double majors.

The philosophy faculty has an unusually wide range of research interests. Faculty members have written books and articles addressing not only the classical and traditional concerns of philosophy, but also contemporary controversies in the fields of law, psychology, sociology, political theory, biology, medical ethics, theology, logic, and philosophy of history as well. For their research in some of these areas, members have been awarded a number of national research grants, including fellowships from the National Science Foundation, the American Council of Learned Societies, and the National Endowment for the Humanities.

In keeping with this emphasis on diversity, the department is represented by scholars trained in widely different approaches to philosophy, such as the analytic tradition, Continental idealism and existentialism, Marxist dialectic, and Asian modes of thought.

Undergraduate Studies

General Education Requirements

Majors must meet the university and college general education requirements (http://bulletin.umsl.edu/generaleducationrequirements). PHIL 1120: Asian Philosophy and PHIL 1125: Islamic Philosophy satisfy the college cultural diversity requirement. Majors may not count philosophy courses taken on a satisfactory/unsatisfactory basis toward the degree requirements.

Expected Learning Outcomes

- Acquire basic knowledge of traditional philosophical issues in the western tradition.
- Develop critical thinking skills based on knowledge of the standards governing logical reasoning.
- Acquire familiarity with philosophical issues that arise in some other disciplines (e.g. biology, art, education, etc.).
- Acquire a basic understanding of ethical and social-political principles and their role in resolving ethical disputes and in evaluating social practices and institutions.
- Become acquainted with current philosophical debates in the areas of epistemology, metaphysics, and value theory, and with the arguments and proposals made to resolve them.

Bachelor of Arts in Philosophy

The undergraduate major in philosophy requires 30 hours of philosophy coursework. All majors must complete the general education (http://bulletin.umsl.edu/generaleducationrequirements) course requirements. Candidates for the B.A. degree may take any foreign language to meet the foreign language requirement. Students who double major with a B.A. in Philosophy and a B.S. degree in Biology, Biochemistry and Biotechnology, Chemistry, Computer Science, Mathematics, or Physics may waive the foreign language requirement. Students with particular interests may choose to structure their major around tracks offered by the department. A minimum of 18 hours, including all courses for the major at or above the 3000 level, must be taken in residence in the UMSL Department of Philosophy. Philosophy majors must complete all required courses (under Course Requirements) with a grade of “C-“ or higher and maintain a 2.0 GPA for all their Philosophy coursework.

Degree Requirements

General Education Requirements

Majors must meet the university and college general education requirements (http://bulletin.umsl.edu/generaleducationrequirements). PHIL 1120: Asian Philosophy and PHIL 1125: Islamic Philosophy satisfy the college cultural diversity requirement. Majors may not count philosophy courses taken on a satisfactory/unsatisfactory basis toward the degree requirements.

Course Requirements

History of Philosophy

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1110</td>
<td>Western Philosophy I: Antiquity To The Renaissance</td>
</tr>
<tr>
<td>PHIL 3301</td>
<td>Ancient Philosophy</td>
</tr>
<tr>
<td>PHIL 3302</td>
<td>Medieval Philosophy</td>
</tr>
<tr>
<td>PHIL 3303</td>
<td>Early Modern Philosophy</td>
</tr>
<tr>
<td>PHIL 3304</td>
<td>Kant and Nineteenth Century Philosophy</td>
</tr>
<tr>
<td>PHIL 3305</td>
<td>Twentieth Century Philosophy</td>
</tr>
<tr>
<td>PHIL 3307</td>
<td>American Philosophy</td>
</tr>
</tbody>
</table>

Logic

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1160</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>PHIL 3360</td>
<td>Formal Logic</td>
</tr>
</tbody>
</table>

Normative Philosophy

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1130</td>
<td>Approaches to Ethics</td>
</tr>
<tr>
<td>PHIL 4430</td>
<td>Social and Political Philosophy</td>
</tr>
<tr>
<td>PHIL 4435</td>
<td>Classical Ethical Theory</td>
</tr>
<tr>
<td>PHIL 4438</td>
<td>Recent Ethical Theory</td>
</tr>
</tbody>
</table>

Junior Level Requirement

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3374</td>
<td>Philosophy of Art</td>
</tr>
<tr>
<td>PHIL 3378</td>
<td>Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 3380</td>
<td>Philosophy of Science</td>
</tr>
</tbody>
</table>

Core Requirement
Select one of the following:  
PHIL 4440  Theories of Knowledge  
PHIL 4445  Metaphysics  

Senior Seminar  
PHIL 4491  Senior Seminar  

Elective Hours  9  
Total Hours  30  

Tracks  
Tracks are ways that the Philosophy major may be completed but they are not mandatory; a student may complete the Philosophy major without following any track. All students on a track must complete the course requirements of the major. Students may use the same course to satisfy the major's course requirements and the requirements of individual tracks but, if they do so, they need to add enough elective courses to reach a total of 30 hours of philosophy coursework.

Pre-Law  
PHIL 4487  Topics in Philosophy of Law  3  
Select two of the following:  6  
PHIL 2251  Sexual Ethics  
PHIL 2252  Crime and Punishment  
PHIL 2254  Business Ethics  
PHIL 2255  Environmental Ethics  
PHIL 2256  Bioethics  
PHIL 2258  Medicine, Values, and Society  
PHIL 2283  Markets and Morals  
PHIL 4430  Social and Political Philosophy  
PHIL 4435  Classical Ethical Theory  
PHIL 4437  Metaethics  
PHIL 4438  Recent Ethical Theory  
PHIL 4439  Topics in Ethical Theory  

Total Hours  9  

Science Studies  
PHIL 3380  Philosophy of Science  3  
Select two of the following, at most one at the 2000 level:  6  
PHIL 2258  Medicine, Values, and Society  
PHIL 4465  Theory of Decisions and Games  
PHIL 4479  Philosophy of Cognitive Science  
PHIL 4480  Topics in Philosophy of Science  

Total Hours  9  

Psychology and Neuroscience  
PHIL 3378  Philosophy of Mind  3  
Select two of the following:  6  
PHIL 2280  Minds, Brains, and Machines  
PHIL 3380  Philosophy of Science  
PHIL 4465  Theory of Decisions and Games  
PHIL 4478  Topics in Philosophy of Mind  
PHIL 4479  Philosophy of Cognitive Science  

Total Hours  9  

Ethics and Society  
Select two of the following:  6  
PHIL 4430  Social and Political Philosophy  
PHIL 4435  Classical Ethical Theory  
PHIL 4437  Metaethics  
PHIL 4438  Recent Ethical Theory  
PHIL 4439  Topics in Ethical Theory  
Select one of the following:  3  
PHIL 2251  Sexual Ethics  
PHIL 2254  Business Ethics  
PHIL 2255  Environmental Ethics  
PHIL 2256  Bioethics  

Total Hours  9  

Health Sciences  
PHIL 2256  Bioethics  3  
Select two of the following:  6  
PHIL 2251  Sexual Ethics  
PHIL 2257  Happiness and the Meaning of Life  
PHIL 2258  Medicine, Values, and Society  
PHIL 2280  Minds, Brains, and Machines  
PHIL 4478  Topics in Philosophy of Mind  
PHIL 4479  Philosophy of Cognitive Science  

Total Hours  9  

History  
Select one of the following:  3  
PHIL 3301  Ancient Philosophy  
PHIL 3302  Medieval Philosophy  
PHIL 4401  Plato  
PHIL 4402  Aristotle  
PHIL 4410  Topics and Figures in the History of Philosophy (depending upon the historical figure)  
Select one of the following:  3  
PHIL 3303  Early Modern Philosophy  
PHIL 3304  Kant and Nineteenth Century Philosophy  
PHIL 4406  Empiricism  
PHIL 4407  Kant  
PHIL 4408  Hegel  
PHIL 4410  Topics and Figures in the History of Philosophy (depending upon the historical figure)  
Select one of the following or an additional course from one of the above categories:  3  
PHIL 3305  Twentieth Century Philosophy  
PHIL 3307  American Philosophy  
PHIL 4421  The Analytic Tradition  
PHIL 4435  Classical Ethical Theory  

Total Hours  9
For Honors College students.

Departmental Honors

Majors with a 3.2 or higher grade point average in all courses may, with the department’s consent, earn departmental honors by:

1. Taking , Introduction to Formal Logic;
2. Completing at least 3 hours of PHIL 4450, Special Readings in Philosophy;
3. Submitting an acceptable thesis before the end of the senior year.

Philosophy as Part of a Double Major

Consider combining your philosophy major with another major. Philosophy trains students in basic, portable skills such as thinking independently and creatively, analyzing and constructing arguments, communicating clearly and persuasively, and considering multiple viewpoints. So philosophy naturally complements virtually every other field.

Bachelor of Liberal Studies

Build a bridge to some other discipline by combining one of the minors offered by the Philosophy department with a minor in a second field to get a Bachelor of Liberal Studies. For more information, please go to the Interdisciplinary Studies program page.

Minor in Philosophy

The undergraduate minor in philosophy requires any five philosophy courses, at least three of which must be taken at the 3000 level or higher. Students with particular interests are encouraged to use the tracks above to organize their minor. At least 6 hours of course work for the minor at the 2000 level or higher must be taken in residence in the UMSL Department of Philosophy.

A GPA of 2.0 or better is required in courses presented for the minor. Prospective minors are encouraged to consult with members of the department for advice in planning an appropriate sequence of courses.

Minor in Law and Philosophy

The undergraduate minor in Law and Philosophy requires five philosophy courses (15 credit hours). At least 6 hours must be at the 3000 level or above. A GPA of 2.0 or better is required in courses presented for the minor. Prospective minors are encouraged to consult with members of the department for advice in planning an appropriate sequence of courses.

PHIL 2252 Crime and Punishment 3
PHIL 4487 Topics In Philosophy Of Law 3
PHIL 1160 Critical Thinking 3
PHIL 3360 Formal Logic 3
Two courses in Philosophy 6
Total Hours 15

Minor in Philosophy of Science and Technology (PST)

The Minor in Philosophy of Science and Technology (PST) is an interdisciplinary program requiring a minimum of 18 credits in PST.

All required courses must be completed with a “C” or higher. The satisfactory/unsatisfactory option may not be used. No transfer courses may be used towards the PST Minor. A minimum of 12 hours must be taken at 2000 and above with 9 of those hours being at 3000 or above. Courses in the upper division may satisfy requirements for the student’s major, consistently with the major’s requirements.

Requirements

Math
Select one of the following courses in either statistics or calculus: 3
BIOL 4122 Biometry
ECON 3100 Economic Statistics
MATH 1320 Introduction to Probability and Statistics
MATH 1800 Analytic Geometry And Calculus I
PSYCH 2201 Psychological Statistics
SOC 3220 Social Statistics

Logic and Methodology
Select one of the following courses in either logic or methodology: 3
ANTHRO 4308 Practicum In Cultural Research Methods
ANTHRO 4310 Laboratory Methods In Archaeology
HIST 2999 Introduction to Historical Inquiry
PHIL 3360 Formal Logic
PHIL 4460 Advanced Formal Logic
PSYCH 2219 Research Methods
SOC 3230 Research Methods

Philosophy
PHIL 3380 Philosophy Of Science 3

Select one of the following in the philosophy of science and technology: 3
PHIL 2280 Minds, Brains, And Machines
PHIL 2281 Darwinism and the Philosophy of Biology
PHIL 2282 Philosophy of Science in Historical Perspective
PHIL 3380 Philosophy Of Science
PHIL 4452 Feminism And Science
PHIL 4479 Philosophy Of Cognitive Science
PHIL 4480 Topics In Philosophy Of Science
PHIL 4482 Philosophy Of Social Science
PHIL 4483 Topics In History And Philosophy Of Science
PSYCH 3400 Conceptual and Historical Foundations of Psychology

Science
Select 6 credit in the mathematical, physical, life, behavioral, or social sciences. ¹

| Total Hours | 18 |

¹ The science courses must be in addition to those satisfying the Gen Ed requirements and conditional upon their acceptance by the PST undergraduate advisor.

**Prerequisites**

Some courses required by the Minor in PST have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for either satisfying the prerequisites by adding courses to their curriculum or obtaining a waiver from the instructor.

**Alternative courses to satisfy the Philosophy requirements**

Some courses may satisfy the Philosophy requirement even though they are not listed as such depending on their content. These include variable content courses, courses at the Honors College, history of philosophy courses, and courses in metaphysics. If a course that deals with some aspect of PST and should satisfy a requirement is not listed among those satisfying the requirements, you may do the following:

1. Obtain the description of what the course will cover.
2. Write a very short explanation of why the course ought to count toward satisfaction of the requirement, by showing how it deals with the relevant aspect of PST.
3. Submit both to the PST undergraduate advisor for approval.

**Bachelor of Liberal Studies Option:**

A minor in PST may be combined with a minor in the History of Science and Technology and a capstone to form a Bachelor of Liberal Studies. The relevant capstones are either or HIST 4999. Since students taking must have taken HIST 2999, it is suggested such students use to satisfy the Logic and Methodology requirement. Students can use the same course to satisfy the Logic and Methodology requirement of both minors, but cannot use the same science courses. Also, students that pursue the Bachelor of Liberal studies combining these two minors must pursue at least one science at an advanced level. Such a Liberal Studies program is easily combined, in turn, with a major in any science as a double major. This provides the student with a deeper historical and conceptual understanding of the science(s) he or she is studying.

**History and Philosophy of Science and Technology Certificate**

The undergraduate Certificate Program in History and Philosophy of Science and Technology (HPST) is an interdisciplinary program requiring a minimum of 18 credits in HPST.

All required courses must be completed with a "C-" or higher. The satisfactory/unsatisfactory option may not be used towards the HPST Certificate. A minimum of 12 hours must be taken at 2000 and above with 9 of those hours being at 3000 or above. Courses in the upper division (3000 level and above) may satisfy requirements for the student’s major, consistently with the major’s requirements.

**Requirements**

1. **History:**
   - Select two of the following courses in History and Technology:
     - ECON 3800 History Of Economic Thought
     - HIST 2089 Religion, Philosophy & Science in History: Introduction To The Intellectual History Of The West
     - HIST 2770 Introduction To Transportation
     - HIST 2772 History Of Aviation In American Life
     - HIST 2773 Urbanization And Transportation
     - HIST 4143 Inquiries in World History ¹
     - PHIL 4483 Topics In History And Philosophy Of Science
     - PSYCH 3400 Conceptual and Historical Foundations of Psychology
   - Total Hours 6

2. **Philosophy:**
   - Select one of the following in the philosophy of science: ³
     - PHIL 2280 Minds, Brains, And Machines
     - PHIL 2281 Darwinism and the Philosophy of Biology
     - PHIL 2282 Philosophy of Science in Historical Perspective
     - PHIL 3380 Philosophy Of Science
     - PHIL 4452 Feminism And Science
     - PHIL 4479 Philosophy Of Cognitive Science
     - PHIL 4480 Topics In Philosophy Of Science
     - PHIL 4482 Philosophy Of Social Science
     - PHIL 4483 Topics In History And Philosophy Of Science
     - PSYCH 3400 Conceptual and Historical Foundations of Psychology
   - Total Hours 6

3. **Science:** Two courses in the mathematical, physical, life, behavioral, or social sciences. The science courses must be in addition to those satisfying the Gen Ed requirements (for students pursuing a degree at UM St. Louis) and conditional upon their acceptance by the HPST Certificate Undergraduate advisor (6 credit hours).

¹ Note: HIST 4143 is offered under different topics; only the specific topic listed here counts as HPST.

**Prerequisites**

Some courses required by the Certificate Program in HPST have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for either satisfying the prerequisites by adding courses to their curriculum or obtaining a waiver from the instructor.

**Alternative courses to satisfy the History and Philosophy requirements:**

Some courses may satisfy either the History or the Philosophy requirement even though they are not listed as such, depending on what
their content is. These include but are not listed among those satisfying the requirements, you may do the following:

- Obtain the description of what the course will cover.
- Write a very short explanation of why the course ought to count toward satisfaction of the requirement, by showing how it deals with the relevant aspect of HPST.

Submit both to the HPST undergraduate advisor for approval.

Certificate in Neuroscience

The undergraduate Certificate Program in Neuroscience is an interdisciplinary program requiring 20 credits of training in Neuroscience. The Program provides a group of related courses capped by a research experience. The Program is likely to be of particular interest to students who want to pursue graduate or professional training, but it is intended to appeal to any student interested in Neuroscience.

Courses taken for the certificate in the lower division (1000 and 2000 level) may satisfy general education requirements (that is, breadth requirements), if they are approved general education courses. Courses in the upper division (3000 level and above) may satisfy requirements for the student’s major, consistently with the major’s requirements. All required courses must be completed with a “B-“average or higher. Pass/Fail grades to not count.

Most courses required by the Certificate Program in Neuroscience have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for satisfying the prerequisites.

Requirements

The two entry level courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1831</td>
<td>Introductory Biology: From Molecules To Organisms</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 1012</td>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>or BIOL 1102</td>
<td>Human Biology</td>
<td></td>
</tr>
<tr>
<td>PSYCH 2211</td>
<td>Introduction To Biological Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following statistics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>BIOL 4122</td>
<td>Biometry</td>
</tr>
<tr>
<td>MATH 1320</td>
<td>Applied Statistics I</td>
</tr>
<tr>
<td>PSYCH 2201</td>
<td>Psychological Statistics</td>
</tr>
<tr>
<td>SOC 3220</td>
<td>Social Statistics</td>
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Electives

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3102</td>
<td>Animal Behavior</td>
</tr>
<tr>
<td>BIOL 4822</td>
<td>Introduction To Neuroscience</td>
</tr>
<tr>
<td>CHEM 4712</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>CMP SCI 4300</td>
<td>Introduction To Artificial Intelligence</td>
</tr>
<tr>
<td>CMP SCI 4340</td>
<td>Introduction To Machine Learning</td>
</tr>
<tr>
<td>PHIL 2280</td>
<td>Minds, Brains, And Machines</td>
</tr>
<tr>
<td>PHIL 3378</td>
<td>Philosophy Of Mind</td>
</tr>
<tr>
<td>PHIL 4478</td>
<td>Topics In Philosophy Of Mind</td>
</tr>
<tr>
<td>PHIL 4479</td>
<td>Philosophy Of Cognitive Science</td>
</tr>
<tr>
<td>PHYSICS 4347</td>
<td>Biophysics Of Imaging</td>
</tr>
<tr>
<td>PSYCH 4300</td>
<td>Introduction To Psychopharmacology: Drugs And Mental Illness</td>
</tr>
<tr>
<td>PSYCH 4314</td>
<td>Behavioral Neuroscience</td>
</tr>
</tbody>
</table>

Select at least 3 credits from one or more semesters of research experience

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4905</td>
<td>Research</td>
</tr>
<tr>
<td>CHEM 3905</td>
<td>Chemical Research</td>
</tr>
<tr>
<td>CMP SCI 4880</td>
<td>Individual Studies</td>
</tr>
<tr>
<td>PHIL 4450</td>
<td>Special Readings In Philosophy</td>
</tr>
<tr>
<td>PHYSICS 3390</td>
<td>Research</td>
</tr>
<tr>
<td>PSYCH 3390</td>
<td>Directed Studies</td>
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</table>

Total Hours: 20

Graduate Studies

Expected Learning Outcomes

- Acquire advanced knowledge of traditional philosophical issues in the western tradition.
- Develop critical thinking skills based on knowledge of the standards governing logical reasoning.
- Acquire familiarity with philosophical issues that arise in some other disciplines (e.g. biology, art, education, etc.).
- Acquire a basic understanding of ethical principles and their role in resolving ethical disputes.
- Acquire the knowledge and skills required to write a paper identifying a philosophical issue and presenting arguments supporting a thesis for resolving it.

Master of Arts in Philosophy

To earn a M.A. in philosophy, students must complete at least 30 hours of graduate-level course work. In addition, students must write a thesis, for which they must take three to six credit hours of Thesis Research. Entering students must demonstrate a competence in logic, either by having passed the relevant course prior to admission or by taking PHIL 5561: Graduate Formal Logic here at UMSL. Students should take PHIL 5400: Proseminar in Philosophy in the first year of residency. At least two-thirds of the course work must be completed in residence at UMSL. In addition, the courses taken are subject to two distribution requirements:

1. At least half of the courses must be at the 5000 level.
2. Two courses (6 credit hours) must be taken outside the student's major

   - Value Theory
   - History of Philosophy
2+3 B.A. and M.A. in Philosophy

The Combined B.A./M.A. Program in Philosophy provides an opportunity for students of recognized academic ability and educational maturity to fulfill integrated requirements of undergraduate and master's degree programs in three years from the beginning of their junior year. When all the requirements of the B.A./M.A. program have been completed, students will be awarded both the B.A. and M.A. degrees. With a carefully designed program, a student can earn both degrees within as few as ten semesters.

The Combined Program requires a minimum of 138 credit hours, of which at least 30 must be at the upper division level course numbers in the 4000-5999 range (excluding PHIL 5495). In qualifying for the B.A., students must meet all university and college requirements, including all the requirements of the regular undergraduate major in philosophy described above. Students will normally take PHIL 3360: Formal Logic and two courses in the 3301-3307: History of Philosophy sequence in their junior years, along with electives. Any courses still needed to satisfy college foreign language and expository writing requirements would also be taken during this year. PHIL 4491: Senior Seminar and more specialized courses are taken in the senior year. In the fifth year, students take advanced electives and such required courses as are needed to fulfill remaining university, Graduate School, and departmental requirements for the M.A. This includes satisfactory completion of 30 graduate credit hours, at least 18 of which must be in courses numbered above 5000 and among which must be at least three in each of the four subject areas listed for the regular M.A. program, and one of which must be PHIL 5400: Proseminar in Philosophy. Up to 12 graduate credit hours may be applied simultaneously to both the B.A. and M.A. requirements. In addition to the above coursework, students must also write a thesis, in which case at least three hours must be taken in PHIL 5495. Students should apply to the Graduate Committee for admission to the Combined B.A./M.A. Program in Philosophy the semester they will complete sixty undergraduate credit hours or as soon thereafter as possible. It is also recommended that students complete the foreign language requirement and the junior-level writing requirement before applying. A cumulative grade point average of 3.0 or higher and three letters of recommendation from faculty are required for consideration.

Students should apply to the Graduate Committee for admission to the Combined B.A./M.A. Program in Philosophy the semester they will complete sixty undergraduate credit hours or as soon thereafter as possible. It is also recommended that students complete the foreign language requirement and the junior-level writing requirement before applying. A cumulative grade point average of 3.0 or higher and three letters of recommendation from faculty are required for consideration.

Students will be admitted to the Combined Program under provisional status until they have completed fifteen credit hours in it with a grade point average of 3.0 or higher. After the completion of the provisional period, and with the recommendation of the Graduate Committee, students can be granted full admission into the program. Students must maintain a grade point average of 3.0 or higher throughout the Combined Program. Students who officially withdraw from the Combined Program who have successfully completed all the requirements for the B.A. degrees will be awarded the B.A. degree.

Philosophy Requirements for Students in the 2+3 Program

1. To be taken in the junior year:
   a. Select four courses (12 credit hours) from the following:
   b. Two courses in the History of Philosophy, each at the 2000 level or above.
   c. One additional Philosophy course, at the 2000 level or above.

2. To be taken in the senior year:
   a. At least five of these courses must be at or above the 5000 level.
   b. Courses must be selected so that the student has taken at least one and preferably two courses from each of the four subject areas in the course of completing the 2 + 3 program:
      • Value Theory
      • History of Philosophy
      • Logic/Philosophy of Science
      • Epistemology/Metaphysics
   c. PHIL 5400: Proseminar in Philosophy

3. To be taken in the final year of the program:
   a. Six courses (18 credit hours)
   b. Two History courses, each at the upper division
   c. One course from the PHIL 4470-PHIL 4487 sequence
   d. Select one of the following:
      • PHIL 4430 Social And Political Philosophy
      • PHIL 4435 Classical Ethical Theory
      • PHIL 4438 Recent Ethical Theory
   e. Three foreign language courses

4. To be taken in the final year of the program:
   a. At least five of these courses must be at or above the 5000 level.
   b. Courses must be selected so that the student has taken at least one and preferably two courses from each of the four subject areas in the course of completing the 2 + 3 program:
      • Value Theory
      • History of Philosophy
      • Logic/Philosophy of Science
      • Epistemology/Metaphysics
   c. PHIL 5400: Proseminar in Philosophy

Cooperative arrangement with Saint Louis University.

The strengths of the UMSL Department of Philosophy are complemented by those of the Saint Louis University Philosophy Department, which has strengths in the history of philosophy as well as in philosophy of religion. To enhance students’ opportunities for instruction and expertise, the two departments have worked out a cooperative arrangement that permits graduate philosophy students on each campus to take up to four courses at the partner institution. In any given semester, UMSL graduate students must take at least half of their courses at their home institution. Students admitted to the M.A. program on a probationary basis must take all their courses at UMSL during their first semester.

Sample Four Year Plan

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTDSC 1003</td>
<td>1 PHIL 1111</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1100</td>
<td>3 CORE – Communication Proficiency</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1020 or 1030</td>
<td>3 EXPLORE – Social Sciences</td>
<td>3</td>
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<td>PHIL 1110</td>
<td>3 EXPLORE – Math &amp; Sciences</td>
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PHIL 1030 Present Moral Problems: 3 semester hours
This course will explore a range of ethical dilemmas with an eye towards living the best life. How should I live? What actions are right and wrong? How should I treat myself and others? In this class, we will consider these and other issues by investigating practical problems in daily life including: human rights, the environment, hunger and poverty, war and violence, racial and ethnic discrimination, gender roles and marriage, abortion, and euthanasia.

PHIL 1130 Introduction to Philosophy (MOTR PHIL 100): 3 semester hours
A study and discussion of representative topics in philosophy such as free will and determinism, concepts of mind and body, the basis of value judgments, knowledge and belief, and the possibility of constructing a world view.

Courses

PHIL 1021 Choice and Chance: 3 semester hours
Same as MATH 1021. Prerequisites: A satisfactory score on the UMSL ALEKS Math Placement Exam, obtained at least one year prior to enrollment in this course. This course provides an introduction to inductive logic and the theory of probability in an organized and systematic way, so as to give students tools for more effective decision-making. We will introduce the probability calculus, basic concepts of utility theory, decision theory and different approaches to understanding probability. This course is designed to be accessible to students of all levels. Satisfies mathematics proficiency.

PHIL 1050 Existentialism and Phenomenology: 3 semester hours
The course will cover classic works by philosophers and writers in the existential and phenomenological traditions. Topics include free will, existential crisis, despair, anxiety, faith, the death of God, the origin of morals, authentic life, as well as the structure and content of conscious experience.

PHIL 1090 Philosophy Looks at the Arts: 3 semester hours
This online course will explore the distinct resources of various arts - the raw materials of each, what each can represent, express, convey - and key differences among them. After an introductory unit devoted to art in general, the course will present eight units examining the arts of painting, photography, sculpture, architecture, music, literature, drama, and film. The course will employ a variety of instructional materials. These include posted essays, streaming video, readings from an assigned text, and participation on an interactive discussion board.

PHIL 1091 Great Philosophers: 3 semester hours
This online course introduces philosophy through a survey and examination of the ideas of fifteen of the most important figures in the history of the subject. From Socrates to Nietzsche, the questions, answers, and lives of the great philosophers are explored in a multimedia context. This course does not satisfy any of the requirements for philosophy major or minor.

PHIL 1110 Western Philosophy I: Antiquity To The Renaissance: 3 semester hours
Lectures and discussions tracing the development of western philosophy from its beginnings among the pre-Socratics through the Middle Ages and Renaissance. Philosophical ideas will be examined in the cultural and historical context: the Greek city-state, the rise of Christianity, etc.

PHIL 1111 Western Philosophy II: Descartes to the Present: 3 semester hours
Lectures and discussions on the development of western philosophy from Descartes (1596-1650) to the present. Philosophical ideas will be examined with an eye to their historical and cultural setting: the rise of modern science, the industrial revolution, the rise of capitalism, etc.

PHIL 1120 Asian Philosophy: 3 semester hours
Critical study of selected philosophical classics of India and China. This course fulfills the cultural diversity requirement.

PHIL 1125 Islamic Philosophy: 3 semester hours
An introduction to Arabic philosophy in the Islamic classical period (roughly from the mid-ninth through the twelfth centuries). We consider the philosophical and theological background, and then examine the thought of such notable Islamic philosophers as al-Kindi, Ibn Sina, al-Ghazali, and Ibn Rushd. Topics treated typically include proofs for the existence of God, whether the world is eternal or had a beginning, the nature of the soul and whether it is immortal, and the distinction between essence and existence.

This course fulfills the cultural diversity requirement.

PHIL 1130 Approaches to Ethics (MOTR PHIL 102): 3 semester hours
A study and discussion of representative topics in moral philosophy such as moral skepticism, moral objectivity, theories of obligation and value, evaluation of social institutions and the relation between morality and science. Traditional and contemporary writers will be considered.

PHIL 1150 Introduction to Philosophy (MOTR PHIL 100): 3 semester hours
A study and discussion of representative topics in philosophy such as free will and determinism, concepts of mind and body, the basis of value judgments, knowledge and belief, and the possibility of constructing a world view.
PHIL 1151 Love 101: 3 semester hours
A critical review of what media personalities, philosophers, criminal justice experts, medical experts, neuroscientists, and psychologists have said about love and its place in our lives. Included will be such topics as the neuroscience of love, love across culture, love and commitment issues, marriage and the “seven-year itch,” jealousy, domestic violence, and verbal abuse. Larger questions will include the role of love in the good life; the ethics of love; the psychological consequences of obsession, breakups and divorce; arranged marriages vs. freely chosen love; and the morality of laws that affect relationships between loving partners.

PHIL 1160 Critical Thinking (MOTR PHIL 101): 3 semester hours
An introduction to the language and logical structure of arguments, the principles of sound reasoning, and application of these principles in a variety of contexts.

PHIL 1178 Superhuman Mind: 3 semester hours
As a study of people with special neurological talents, this course will look at cases of people who became geniuses by accident, human echolocation (deaf people who can detect sound), lucid dreaming, telepathy used to solve crimes, and more.

PHIL 1180 Science vs. God: 3 semester hours
This course examines whether religion and science are compatible, discusses the science-religion debate historically, and broaches philosophical issues surrounding belief, especially whether belief should be based in empirical evidence or in faith. Following these introductory course sessions, the class will discuss, in detail, topics in science and religion, including creation versus evolution; human nature (including abortion and stem cell research); the nature of sexuality and gender; the science of religion; morality; the environment from a religious perspective; meaningfulness in the universe; and finally, evidence for or against the afterlife, existence of a divinity, and divine providence.

PHIL 1185 Philosophy of Religion: 3 semester hours
A philosophical investigation of such problems as the nature of religious faith and experience, the relation of faith and reason, alternative concepts of deity and the problem of evil.

PHIL 2249 Accounting Ethics: 3 semester hours
The course is a study of moral problems as they relate to the profession of accounting. We will analyze a number of major cases (Enron, HealthSouth, etc.) in which accounting lapses were involved, and we will look at general moral theories which might illuminate these problems. A major component of the course work will be writing essays which address specific moral dilemmas which have arisen or might arise for accountants. The course is primarily online, but there will be five required 75-minute class meetings spread through the semester.

PHIL 2250 Philosophy and Current Issues: 3 semester hours
A careful examination of such current social controversies as women's liberation, the ethics of abortion, public accountability of holders of high offices, and the subtler forms of racism and other prejudices. Although there is no formal prerequisite, it is recommended that students have taken, or be concurrently enrolled in, at least one other philosophy course.

PHIL 2251 Sexual Ethics: 3 semester hours
A critical review of what philosophers, both classical and contemporary, have said about sexual experience and its place in our lives. Included will be such topics as sexual desire, sexual perversion, love and commitment, marriage and adultery, larger questions might include that role of sexual experience in the good life, issues of sexual privacy, and the morality of laws which regulate sexual activity.

PHIL 2252 Crime and Punishment: 3 semester hours
Same as CRIMIN 2252. This course will address fundamental conceptual, ethical, and moral issues that arise in the context of the legal system. Topics may include punishment, pre-trial detention, the death penalty, acquittal of persons who are legally guilty, plea bargaining, moral obligation to obey the law, and laws restricting civil liberties.

PHIL 2253 Philosophy and Feminism: 3 semester hours
Same as GS 2253. A critical examination of what various philosophers have said about issues of concern to women. Sample topics include oppression, racism, women's nature, femininity, marriage, motherhood, sexuality, pornography, the ethics of care.

PHIL 2254 Business Ethics: 3 semester hours
A critical survey from the perspective of moral theory of businesses and business practices. Topics vary but usually include some of the following: Whether the sole moral obligation of businesses is to make money; whether certain standard business practices, e.g., the creation of wants through advertising, are moral; whether businesses ought to be compelled, e.g., to protect the environment or participate in affirmative action programs.

PHIL 2255 Environmental Ethics: 3 semester hours
Examines such issues as the value of wilderness, our duties to animals and the natural world, pollution and development, environmental justice.

PHIL 2256 Bioethics: 3 semester hours
Same as GERON 2256. An examination of ethical issues in health care practice and clinical research and in public policies affecting health care. Topics include: abortion, euthanasia, health care, experimentation, informed consent and the right to health care.

PHIL 2257 Happiness and the Meaning of Life: 3 semester hours
This course is an accessible introduction to the historical and contemporary perspectives on happiness and the meaning of life in philosophy. It examines the nature of happiness by focusing on three major theories: happiness as pleasure, happiness as excellence and happiness as desire satisfaction. Other issues examined may include the relevance of virtue for happiness, the experience machine argument, the best way to pursue happiness as a personal or a policy goal, and other related topics.

PHIL 2258 Medicine, Values, and Society: 3 semester hours
Social, conceptual, and policy issues connected with medicine form the focus of the course. Topics may include: (1) role played by race & gender in design of research and distribution of care; (2) whether diseases are socially constructed categories reflecting the values of society; (3) development of social policies that offer universal access to health care; (4) the legitimacy of using psychotropic drugs to enhance life, rather than treat the disease. The course differs from Bioethics by emphasizing policy issues and their conceptual basis. Content of this course may vary.

PHIL 2259 Engineering Ethics: 3 semester hours
An examination of ethical issues in engineering using professional engineering codes as a starting point. The course will have a problem solving orientation, focusing on the analysis of particular cases. Actual high-profile cases such as the Challenger disaster will be considered, as well as hypothetical cases illustrating the more commonly encountered moral problems in engineering (such as accepting gifts from vendors). Topics include the engineer/manager relationship, engineers and the environment, honesty in engineering, and risk, safety, and liability.

PHIL 2276 Philosophy of Film: 3 semester hours
Critical study of such issues as film's relation to photography, shots and editing, documentary vs. fiction films, cinematic narration, our identification with film characters, criticism and evaluation.
PHIL 2277 Philosophy and Food: 3 semester hours
This course will examine issues surrounding the production, consumption, and enjoyment of food. Questions about food choices, food scarcity, self-control, and aberrant eating will be addressed. The focus will range from global issues such as population growth, the carrying capacity of the planet, famine, and GMO crops to more narrowly focused topics such as the workings of our sense of taste, our ability to evaluate and rank different food items, and the very idea of expertise in tasting.

PHIL 2280 Minds, Brains, and Machines: 3 semester hours
An introduction to basic philosophical issues in cognitive science. General topics include minds as computers; computers as minds, or the possibility of artificial intelligence that is truly intelligent; relationship between mental function and brain function. Some areas of current research, such as reasoning, vision, and emotion.

PHIL 2283 Markets and Morals: 3 semester hours
Prerequisites: MATH 1030, or equivalent. This course will explore some moral issues connected with economic markets: the reasons for and against promoting free markets and free trade; whether we should be able to buy and sell anything or are there goods and services that should be above market transactions; whether free markets make us happier; how free markets are related to individual freedom; whether the efficacy of markets requires individuals to be moral; what moral grounds there are, if any, for capitalism, libertarianism, socialism, and Marxism.

PHIL 2380 Ethics in Science: 3 semester hours
This course provides an overview of ethical issues in the practice of the sciences. Students will be introduced to basic concepts and theories of ethics and will apply them to contemporary and historical cases.

PHIL 3286 International Business Ethics: 3 semester hours
Same as INTL BUS 3286. The course will deal with moral issues that are raised by the increasing globalization of business. Apart from the general issue of whether this globalization is itself a good thing, we will discuss such issues as child labor, working conditions, safety standards, environmental policies, bribery and other "corrupt" practices, respect for intellectual property, etc. Frequent short papers will be assigned.

PHIL 3301 Ancient Philosophy: 3 semester hours
Freshman admitted by consent of department. The principle philosophical doctrines of the ancient world, with special emphasis on the philosophies of Plato and Aristotle. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3302 Medieval Philosophy: 3 semester hours
A critical study of the important philosophies of the period from August to the Renaissance. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3303 Early Modern Philosophy: 3 semester hours
Principal figures in the development of rationalism, empiricism and skepticism in early modern Europe, from Descartes through Hume. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3304 Kant and Nineteenth Century Philosophy: 3 semester hours
Study of Kant and such major nineteenth century figures as Hegel and Nietzsche, Mill and Pierce. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3305 Twentieth Century Philosophy: 3 semester hours
Representative topics in contemporary philosophy, with readings selected from pragmatism, logical positivism, linguistic analysis and existentialism. Although there is no formal prerequisite, it is recommended that students have taken at least one other philosophy course.

PHIL 3307 American Philosophy: 3 semester hours
Prerequisite: Six hours of philosophy or consent of instructor. A study of selected American philosophers.

PHIL 3327 Race and Racism: 3 semester hours
This course will investigate the concepts of race and racism through an examination of metaphysical, psychological, ethical, and political problems associated with race.

PHIL 3360 Formal Logic: 3 semester hours
An introductory study of logical truth and deductive inference, with emphasis on the development and mastery of a formal system.

PHIL 3369 The Marxist Heritage: 3 semester hours
Same as POL SCI 3690. Study of Marx and leading Marxists, designed to evaluate their influence on recent political, economic, and social thought and institutions.

PHIL 3374 Philosophy of Art: 3 semester hours
Same as ART HS 3374. A critical study of such issues as the definition of art, the nature of aesthetic experience, meaning and interpretation in the arts, art and emotion, value in art.

PHIL 3378 Philosophy of Mind: 3 semester hours
Prerequisites: Three hours of philosophy or consent of instructor. An introduction to philosophical issues pertaining to the mind. Topics may include how the mind relates to the body, how the mind represents the world, how the mind works, consciousness, and free will.

PHIL 3380 Philosophy of Science: 3 semester hours
An examination of science: what makes science special? Topics may include (but are not limited to): empiricism and of induction; paradigms and revolutions; explanation, causation and laws; realism versus instrumentalism; critiques of science such as those of feminism or postmodernism; and reductionism - ultimately is it all just physics?.

PHIL 4401 Plato: 3 semester hours
Prerequisites: Six hours of philosophy, a course in Ancient Philosophy recommended, graduate standing, or consent of instructor. A study of selected Platonic dialogues.

PHIL 4402 Aristotle: 3 semester hours
Prerequisites: Six hours of philosophy, a course in Ancient Philosophy recommended, graduate standing, or consent of instructor. A selective study of Aristotle’s major works.

PHIL 4406 Empiricism: 3 semester hours
Prerequisites: Six hours of philosophy, a course in Early Modern philosophy recommended, graduate standing, or consent of instructor. An examination of the philosophies of such major figures as Locke, Berkeley, and Hume.

PHIL 4407 Kant: 3 semester hours
Prerequisites: Six hours of philosophy, PHIL 3304 or equivalent recommended, graduate standing or consent of instructor. A systematic study of the Critique of Pure Reason.

PHIL 4408 Hegel: 3 semester hours
Prerequisites: Six hours of philosophy, PHIL 3304 or equivalent recommended, graduate standing, or consent of instructor. A critical study of the writings and influence of Hegel.
PHIL 4410 Topics and Figures in the History of Philosophy: 3 semester hours
Prerequisites: Nine hours of philosophy, graduate standing, or consent of instructor. In-depth examination of a particular topic, significant figure or philosophical movement from the history of philosophy. The philosopher or movement to be studied will be announced prior to registration. This is a variable content course and may be taken again for credit with the consent of the instructor and department chair.

PHIL 4420 Topics in Non-Western Philosophy: 3 semester hours
Prerequisites: PHIL 1120, graduate standing of consent of instructor. An extensive exploration of issues in some particular non-Western tradition (Islamic, Indian, or Chinese). This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 4421 The Analytic Tradition: 3 semester hours
Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. PHIL 3305 and PHIL 3360 strongly recommended. Course studies in depth the development of analytic philosophy with a broad emphasis on its style and substance. Topics may include early writings that set the stage for this tradition (Frege, Moore, Russell), the basic texts of Logical Positivism (Carnap, Schlick, Neurath, Hempel), and later responses including reassessment of the doctrine, the revival of naturalism, and the "death" of philosophy (Wittgenstein, Quine, Sellars). This is a variable content course that may be taken again for credit with consent of the instructor and the department chair.

PHIL 4430 Social and Political Philosophy: 3 semester hours
Prerequisites: Six credit hours of philosophy required or consent of instructor. This course will cover several classic works of political theory, with a particular focus on the nature of justice, the proper extent of liberty, and social contract arguments for the legitimacy of state authority. Readings from Plato, Hobbes, Locke, Hume, Rousseau, Bentham, Mill, Marx and Rawls.

PHIL 4435 Classical Ethical Theory: 3 semester hours
Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. Significant contributions to moral philosophy from Plato and Aristotle to Bentham and Mill.

PHIL 4437 Metaethics: 3 semester hours
Prerequisites: Six credit hours of Philosophy. This course deals with questions regarding the foundations of ethics and the status of our ethical judgments about what's right and wrong, good and bad. The course will consider contemporary approaches to issues such as moral motivation, moral reasons, moral explanations, moral disagreement, moral knowledge, and moral supervenience, as well as various debates between realists and antirealists, and between cognitivists and expressivists.

PHIL 4438 Recent Ethical Theory: 3 semester hours
Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. A study of major contributions to twentieth-century ethics, including works by such writers as Moore, Dewey, Ross, Stevenson, Hare, and Rawls.

PHIL 4439 Topics in Ethical Theory: 3 semester hours
Prerequisites: PHIL 4435, PHIL 4438, nine hours of philosophy, graduate standing, or consent of instructor. Formulation and evaluation of major theories in normative ethics, metaethics, and axiology. Topics include: egoism, moral realism, act and rule utilitarianism, and varieties of naturalism and non-naturalism in ethics. This is a variable content course and can be taken again for credit with the consent of the instructor and the department chair.

PHIL 4440 Theories of Knowledge: 3 semester hours
Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. An examination of concepts and problems involved in the characterization of knowledge. Specific topics will vary, but will usually include knowledge, belief, skepticism, evidence, certainty, perception, truth, and necessity.

PHIL 4445 Metaphysics: 3 semester hours
Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. An examination of selected metaphysical topics such as substance, universals, causality, necessity, space and time, free will, being, and identity.

PHIL 4450 Special Readings in Philosophy: 1-3 semester hours
Prerequisite: Consent of department. Independent study through readings, reports, and conferences. This is a content course and may be taken again up to a total of 6 credit hours with consent of instructor and department chair.

PHIL 4451 Special Topics in Philosophy: 3 semester hours
Prerequisites: Six hours of philosophy, graduate standing, or consent of instructor. A critical study of classical and/or contemporary contributions to a selected topic in philosophy. The topic to be considered will be announced prior to registration. This is a variable content course and can be taken again for credit with the consent of the instructor and the department chair.

PHIL 4458 Ethics and the Computer: 3 semester hours
Prerequisites: Six hours of coursework above the level of MATH 1030 in Math/Computer Science or at least six hours of philosophy or consent of instructor. An examination of ethical issues concerning the use of computers generally and software engineering in particular. Aims at developing awareness of these issues, and skills for ethical decision-making regarding them through careful, analytical methods. Typical issues include privacy, intellectual property, computer fraud, and others.

PHIL 4460 Advanced Formal Logic: 3 semester hours
Prerequisites: PHIL 3360, graduate standing, or consent of instructor. Rigorous study of major developments in contemporary logic. Emphasis is given to theoretical problems and some attention is devoted to philosophical issues arising from logic.

PHIL 4465 Theory of Decisions and Games: 3 semester hours
Same as POL SCI 4060. Prerequisites: Six hours of Philosophy and junior standing, or POL SCI 6401 (or the equivalent) or consent of the instructor. A study of rational decision-making, including games against nature, zero-sum games, and social choices. Topics will include the following: expected utility maximization, the Prisoner's Dilemma, Nash equilibria, and Arrow's theorem on the impossibility of a social welfare function. Parts of the course are technical in nature; a prior course in mathematics (e.g., finite mathematics, calculus, statistics or an economics course with a mathematical component), symbolic logic, or some other course with comparable mathematical content.

PHIL 4474 Topics in Aesthetics: 3 semester hours
Prerequisites: PHIL 3374, graduate standing or consent of instructor. Selected topics, such as vision and representation, musical aesthetics, and recent theorists. This is a variable content course that may be taken again for credit with the approval of the instructor and the department chair.
PHIL 4478 Topics in Philosophy of Mind: 3 semester hours
Prerequisites: PHIL 3378 or six hours of other philosophy courses or consent of instructor. An examination of selected topics at the interface of philosophical and psychological research. This is a variable content course and can be taken again for credit with the consent of the instructor and the department chair.

PHIL 4479 Philosophy of Cognitive Science: 3 semester hours
Prerequisites: PHIL 3378 or PHIL 4478 or nine hours of other philosophy courses or consent of instructor. An exploration of the philosophical foundations of cognitive science, a cooperative effort of philosophers, cognitive psychologists, brain scientists, computer scientists, and others to understand the relationship between the mind and the brain.

PHIL 4480 Topics in Philosophy of Science: 3 semester hours
Prerequisites: Consent of the instructor. An advanced introduction to the philosophy of science for advanced undergraduates in philosophy and graduate and professional students. Topics covered include scientific method, confirmation, explanation, the nature of theories, scientific progress, science criticism, ethics in science, and science and religion.

PHIL 4487 Topics in Philosophy of Law: 3 semester hours
Same as CRIMIN 4487. Prerequisites: CRIMIN 1100 and three hours of philosophy, graduate standing, or consent of instructor. An intensive study of recent philosophical debate about such issues as the authority of law, legal equality and justice, legal responsibility, self-determination and privacy, and legal punishment. This is a variable content course and may be taken again for credit with consent of the instructor and the department chair.

PHIL 4491 Senior Seminar: 3 semester hours
Prerequisites: Senior standing; at least 12 hours of philosophy at the 2000 level or above; or consent of instructor. Intensive study of a central philosophical problem. The course emphasizes the fundamentals of philosophical writing and scholarship. Students will write a major paper to be evaluated by two members of the Philosophy Department and the course instructor.

PHIL 5400 Proseminar in Philosophy: 3 semester hours
Prerequisites: Graduate standing. Required of all entering Graduate Students in the Fall Semester of the first full year of residency. Topics vary. Other graduate students may take this course with the permission of the instructor and the director of Graduate Studies in Philosophy. Students will be expected to write papers, give presentations, and join in class discussion.

PHIL 5403 Seminar on Themes in the History of Philosophy: 3 semester hours
Prerequisites: Graduate standing or consent of instructor. Close study of selected topics, texts, or school of thought in the history of philosophy. Topics may include but are not limited to historical theories of science, Hellenistic philosophy, Neoplatonism, and historical approaches concerning the nature of time. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5410 Seminar in Significant Figures in Philosophy: 3 semester hours
Prerequisites: Graduate standing. In depth study of the work of a single philosopher. The philosopher selected will be announced prior to registration. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5478 Seminar in Philosophy of Mind: 3 semester hours
Prerequisites: Graduate standing. Topics may include functionalism and physicalism; representation and the nature of propositional attitudes such as belief, desire, and the various emotions; folk psychology and knowledge of other minds; introspection and knowledge of one’s own mind; conscious and unconscious mental states and processes. This is a variable content course and may be taken again for credit with consent of the instructor and the department chair.

PHIL 5495 Thesis Research: 1-3 semester hours
Prerequisites: Graduate standing or consent of instructor. May be repeated once for credit with the consent of the instructor and the department chair.

PHIL 5521 Seminar in Analytic Philosophy: 3 semester hours
Prerequisites: Graduate standing or consent of instructor. Intensive study of selected topics, texts, or individuals in historical or contemporary analytic philosophy. Topics may include, but are not limited to, Frege semantics, Russell's theory of definite descriptions, logical positivism, Wittgenstein's philosophy of language, Quine on the analytic/synthetic distinction, Kripke possible-world semantics, theories of propositions, the analysis of knowledge, contextualism in epistemology and language, relative semantics, epistemic two-dimensionalism, conceivable vs. possibility, three-dimensionalism vs. four-dimensionalism, presentism vs. eternalism, and applications of core concepts in other areas of philosophy. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5530 Seminar in Social and Political Philosophy: 3 semester hours
An intensive study of contemporary philosophical debate about such issues as civil liberty, economic justice, political decision-making, and state authority. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5533 Philosophy of Law: 3 semester hours
Same as CRIMIN 5533. Prerequisite: Graduate standing or consent of instructor. Examination of origins of law and the basis for legal obligation. Specific consideration of the justification of punishment, morality and law, and legal reasoning.

PHIL 5537 Seminar in Metaethics: 3 semester hours
Prerequisites: Graduate standing or consent of instructor. The course deals with questions regarding the foundations of ethics and the status of our ethical judgements about what's right and wrong, good and bad. The course will consider contemporary approaches to issues such as moral motivation, moral reasons, moral explanations, moral disagreement, moral knowledge, and moral supervenience, as well as various debates between realists and antirealists, and between cognitivists and expressivists.

PHIL 5538 Seminar in Ethical Theory: 3 semester hours
Prerequisites: Graduate standing or consent of instructor. In this course we will seek to answer questions from normative ethics or metaethics, which may include: What do all morally wrong actions have in common? What does the word “wrong” mean? How, if at all, can we verify moral judgements? Are any moral judgements valid for all societies? Do we always have good reason to be moral?.

PHIL 5540 Seminar in Epistemology: 3 semester hours
Prerequisites: Graduate standing or consent of instructor. Close study of selected topics, texts, or individuals in epistemology. Topics may include (but are not limited to) theories of justification, naturalism in epistemology, and conceptions of knowledge. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.
PHIL 5545 Seminar in Metaphysics: 3 semester hours
Prerequisites: Graduate standing. Intensive study of a selected topic or problem area in metaphysics, e.g. mind-body identity, nature of the self, or conception of time. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5551 Special Readings in Philosophy: 1-3 semester hours
Prerequisites: Graduate Standing, written consent of instructor. Independent study through readings, reports, and conferences. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5560 Seminar in Logic: 3 semester hours
Prerequisites: Graduate standing. A focused study of topics in logic and/or its history. Representative topics include: Aristotelian logic, modal logic, the Godel incompleteness theorems, relevance logic, paraconsistent logic, free logic. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5561 Graduate Formal Logic: 3 semester hours
Prerequisite: Graduate standing; permission of the department. A rigorous introduction to formal logic that includes sentential calculus, predicate logic, and completeness proofs. May be taken for graduate credit only with permission of the graduate advisor and chair.

PHIL 5579 Seminar in Philosophy of Cognitive Science: 3 semester hours
Prerequisites: Graduate standing. General topics include the role of computation in cognitive science, the merits of symbolic computation and connectionism, the aims and methods of artificial intelligence, and the relationship between cognitive science and our everyday understanding of people. Specific topics may include perception, reasoning, consciousness, language, emotion, and will. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.

PHIL 5580 Seminar in Philosophy of Science: 3 semester hours
Prerequisites: Graduate standing or consent of instructor. Focus is on recent issues and controversies. Topics may include: theories and observation, models of explanation, confirmation, realism and antirealism, empiricism & naturalism, “social construction” and feminist views of science. This is a variable content course and may be taken again with the consent of the instructor and the department chair.

PHIL 5582 Seminar in Philosophy of Social Science: 3 semester hours
Prerequisites: Graduate Standing or consent of instructor. Intensive examination of selected topics, such as the nature of explanation in social science, rationality, value-freedom and objectivity, or relation of social to natural sciences. This is a variable content course and may be taken again for credit with consent of instructor and department chair.

PHIL 5590 Philosophical Issues in Other Disciplines: 3 semester hours
Prerequisites: Graduate standing or consent of instructor. An examination of selected philosophical issues in disciplines other than philosophy. One or more such disciplines as history, political science, psychology, sociology, biology, chemistry, physics, or mathematics will be chosen. The discipline(s) and issues selected will be announced prior to registration. This is a variable content course and may be taken again for credit with the consent of the instructor and the department chair.