The philosophy program is offered in the department of arts, languages and philosophy.

The study of philosophy emphasizes the understanding of ideas, the capacity to identify assumptions, and the ability to gain insights into problems and puzzles. Central to philosophy is the application of rigorous thinking to the fundamental issues of reality, knowledge, and value.

Because rigorous thinking is not restricted to any one academic area, philosophical interests are wide ranging. All types of questions are considered: do we have free will or are all our actions caused? Does God exist and have a determinable nature? How do we tell the difference between what’s morally right and wrong? What is thinking and can animals or machines think? How does our nature influence our behavior and creative activity? What is the interrelationship between technological development and human values? etc.

Philosophy touches on nearly all fields of endeavor and a philosophical education is very flexible. With the help of advisors, students can design their curriculum to match their own special interests. Philosophy is also an excellent pre-professional degree.

**Bachelor of Science Philosophy**

A minimum of 120 credit hours is required for a bachelor of science degree in philosophy, and a grade point average of 2.0 must be obtained. These requirements for the B.S. are in addition to credit received for basic ROTC.

The B.S. in philosophy degree requires the following:

1. **ENGLISH 1120** (entering students will normally take ENGLISH 1120 within their first year of study.) (3 hours)

2. **Sciences.** A total of 24 hours in biological, physical (chemistry, geology, and physics), and mathematical (mathematics, statistics, computer science, and information science and technology) sciences is required. A course from each of the biological and physical sciences is required. Students have to take two math or statistics courses; both must be at the level of college algebra or higher. At least one hour of lab coursework is required. Students may count up to 12 hours of engineering courses, at the discretion of the major advisor. Also, students may count up to 3 hours from the following list, but which may not be used to satisfy another requirement: History of science and technology classes (HISTORY 2510, HISTORY 3510, and HISTORY 3530), PHILOS 4345, or PHILOS 3254 (24 hours)

3. **Social Sciences.** A total of 15 hours in social sciences is required. At least one course from two of the four areas must be taken: economics, sociology/anthropology, history/political science, and psychology. Six (6) hours from the biological, physical, and mathematical science, as well as engineering, not already used for the science requirement, may be substituted for 3 hours of social sciences; this substitution is only permitted once, unless allowed at the discretion of the major advisor. (15 hours)

4. **Humanities.** A total of 12 hours in humanities other than philosophy is required. Courses may be taken in literature, foreign/modern languages, speech and media studies, art, music, or theater. Three (3) hours from history not used for the social science requirement, and not HISTORY 1300 or HISTORY 1310, may be used to fulfill this requirement. (12 hours)

5. **Two (2) Communication Intensive courses are required; waiving and substitutions are at the discretion of the student's advisor.**

6. **Minor.** A minor will be selected from any discipline other than the major with approval of the major advisor. A total of at least 15 hours is required for the minor, but may include courses which also satisfy other requirements. At least nine hours must be beyond the introductory level.

7. **Basic ROTC may be elected in the freshman and sophomore years, but is not creditable toward the B.S. in philosophy degree.** Six credit hours of advanced ROTC may be credited toward this degree.

8. **Elective Credits:** In consultation with her/his advisor, each student will elect sufficient additional courses to complete a minimum of 120 credit hours which may include MATH 1120 or MATH 1140 and MATH 1160.

9. **Philosophy:** A total of at least 30 hours of philosophy courses is required. This is to include PHILOS 1105, PHILOS 1115, and at least 12 hours at the 4000-level, although substitutions may be permitted at the discretion of the major advisor. All philosophy work must accumulate to at least a 2.0 grade point average.

**Ethics Minor**

To qualify, all students must take 15 hours of course work from the following list of which at least 6 hours are from the 4000-level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 1105</td>
<td>Self and World: Introduction To Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 1115</td>
<td>Logic and Reasoning: An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 1130</td>
<td>How Should I Live? An Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 1175</td>
<td>Religion and the Idea of God: Diverse Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3223</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3225</td>
<td>Engineering Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3235</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4335</td>
<td>Philosophy Of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4340</td>
<td>From Activism to Zoos: Issues in Social Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4350</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4360</td>
<td>Who Should Rule and Why? Debates in Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4368</td>
<td>Law and Ethics in E-Commerce</td>
<td>3</td>
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</tbody>
</table>

**Philosophy Minor**

1. A student with a minor in philosophy must meet the following requirements:
   A. Twelve hours in Philosophy course beyond PHILOS 1105 (PHILOS 1105 is a prerequisite to a minor in philosophy).
   B. Six of the twelve hours must be completed in philosophy courses numbered 4000 or above.

2. A student should declare his or her intention to minor in philosophy by his or her junior year.

3. A member of the philosophy staff will act as the student's minor advisor. The student and his or her minor advisor will plan a course of study to meet the specific interests and needs of the student.
Philosophy of Technology Minor

To qualify, all students must take 15 hours of course work in the following areas of philosophy, political science and history. Nine or more of these hours will need to be in philosophy.

Mandatory:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHILOS 1115</td>
<td>Logic and Reasoning: An Introduction</td>
<td>3</td>
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</tbody>
</table>

At least two of the following, one of which must be a philosophy class:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 4345</td>
<td>Philosophy Of Science</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4320</td>
<td>Minds And Machines</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY 3550</td>
<td></td>
<td>3</td>
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</table>

Additional courses from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHILOS 1105</td>
<td>Self and World: Introduction To Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 1163</td>
<td>Biotechnology In Film</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3223</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY 2510</td>
<td>History of Technology</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY 3510</td>
<td>Twentieth Century Technology And Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Logic and the Philosophical Foundations of STEM

How can we tell what makes a scientific theory true? How do experimental results and observations serve as evidence for a theory or law? Indeed, what are theories and laws? While it’s easy to make appeals to something called “the scientific method,” the reality is much more complex. The certificate in Logic and the Philosophical Foundations of STEM will provide students with a working grasp of the basic intellectual framework of modern science, mathematics, and engineering. For those who want to learn more about the very nature of the modern scientific enterprise, this program provides a chance to understand their conceptual, historical, and epistemological foundations.

Students may elect to not only develop their formal skills in the logic and reasoning that allow for the development of scientific theories, but also to go beyond the formal dimensions of science and interrogate the ways in which science has developed historically, and what that tells us about its structure.

The abilities and base of knowledge provided by this certificate can serve as a fascinating supplement to the study of the natural and human sciences, and signal to potential employers not only advanced reasoning skills but a curiosity and intellectual energy that can be applied in a wide variety of areas.

REQUIRED COURSES:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 1115</td>
<td>Logic and Reasoning: An Introduction</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3254</td>
<td>Symbolic Logic in Argumentation</td>
<td>3</td>
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</table>

A further six (6) credits can be chosen from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHILOS 4320</td>
<td>Minds And Machines</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4325</td>
<td>Who Knows What? Knowledge, Truth, and Justification</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4345</td>
<td>Philosophy Of Science</td>
<td>3</td>
</tr>
<tr>
<td>HISTORY 3530</td>
<td>History of Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Professional Ethics and Moral Reasoning

This certificate signifies a commitment to moral leadership.

Professionals are granted a great deal of autonomy, respect, and power in their workplaces as compared to other sorts of employees. And, as we all know, with great power comes great responsibility. With these sorts of privileges, professionals often find themselves in a position of having to make difficult decisions on their own, as well as for others, whether directly or through policy. And while many professionals will find themselves armed with corporate guidelines or professional codes of conduct to guide one, these alone are not sufficient. Because some – if not all – decisions are ethical, or have an ethical dimension.

Pursuing this certificate will help one understand how to answer the question “What should I do?” in an ethical manner. Required courses in professional or “applied” ethics will familiarize students with the types of cases of ethical decision-making that they will likely encounter in professional life, and courses in normative or moral theory will strengthen their skills in moral reasoning, allowing them to adapt to new and changing situations.

REQUIREMENTS:

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHILOS 1105</td>
<td>Self and World: Introduction To Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 1130</td>
<td>How Should I Live? An Introduction to Ethics</td>
<td>3</td>
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3 further credits from:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHILOS 3223</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3225</td>
<td>Engineering Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3235</td>
<td>Business Ethics</td>
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</table>

6 further credits (excluding courses taken to meet above requirements) from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHILOS 3233</td>
<td>Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 3235</td>
<td>Engineering Ethics</td>
<td>3</td>
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<td>PHILOS 4340</td>
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<td>PHILOS 4360</td>
<td>Who Should Rule and Why? Debates in Political Philosophy</td>
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<tr>
<td>PHILOS 4368</td>
<td>Law and Ethics in E-Commerce</td>
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</tbody>
</table>

Technology, Philosophy, and Ethical Futures

This certificate is designed to help make one an informed citizen, a reflective human being, and a potential difference-maker.

We live in a technological world, with rapid developments in emerging nano-, bio-, and information and communications technology taking place every day. But the very speed of these change can make it difficult to see how we are affected by them. How do new technologies impact our environments, our economies, our lived experiences, and our very selves? How can we, as users, cope with them? Perhaps even more importantly, what sorts of obligations and responsibilities do engineers and technicians, as makers, have to make sure they are safe, healthy, or liberating? Finally, how do we, as persons, understand ourselves as users, makers, and human beings?

These are precisely the sorts of questions that the Certificate in Technology, Philosophy, and Ethical Futures will help one address. Pursuing this course of study will familiarize students not only with the dilemmas, challenges, and opportunities that new technologies present but with the conceptual tools to navigate them, which will serve them well both in industry and in personal life.

REQUIREMENTS:

Required Capstone Course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHILOS 4665</td>
<td>Technology, Ethics, and Philosophy</td>
<td>3</td>
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3 credits from:

<table>
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<tr>
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<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PHILOS 1105</td>
<td>Self and World: Introduction To Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 1130</td>
<td>How Should I Live? An Introduction to Ethics</td>
<td>3</td>
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6 credits from:

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<tbody>
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<td>PHILOS 3225</td>
<td>Engineering Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4320</td>
<td>Minds And Machines</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4350</td>
<td>Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 4665</td>
<td>Creating Future Cities</td>
<td>3</td>
</tr>
</tbody>
</table>
Shane Epting, Assistant Professor  
PHD University of North Texas

Darin Finke, Assistant Teaching Professor  
PHD University of Missouri

Patrick Gamez, Assistant Professor  
PHD University of Notre Dame

Ross Reed, Lecturer  
PHD Loyola University

**PHILOS 1105 Self and World: Introduction To Philosophy** (LEC 3.0)  
What is real? What is human being? How can we know any of these things? This course is a survey of the major approaches to philosophical problems, especially those of the nature of reality, human nature, and conduct. Students will both be introduced to the study of philosophy and develop skills in creative inquiry and critical reasoning. Prerequisites: Entrance requirements.  
PHILOS 1105 - MOTR PHIL 100: Introduction to Philosophy

**PHILOS 1110 Practical Reasoning** (LEC 3.0)  
An introduction to the study of non-formal reasoning. The course examines the subtle ways that the form in which information is presented can color the way that information is understood. Prerequisite: Entrance requirements.

**PHILOS 1115 Logic and Reasoning: An Introduction** (LEC 3.0)  
Beliefs should be supported by reasons. But are these reasons good enough? How could one know? In this course, students will learn the basic rules of both formal and symbolic logic, including types of argumentation, methods of reasoning, valid reasoning, inductive and deductive reasoning as used in the sciences and in communication in general. Prerequisite: Entrance requirements.  
PHILOS 1115 - MOTR PHIL 101: Introduction to Logic

**PHILOS 1130 How Should I Live? An Introduction to Ethics** (LEC 3.0)  
What should we do? How should I live? We confront these sorts of questions all the time. In this course we will get a grasp on the moral theories that seek to answer them, by exploring a complex and rich tradition in philosophical thought, from the Ancient Greeks through contemporary thought. No previous exposure to philosophy necessary.  
PHILOS 1130 - MOTR PHIL 102: Introduction to Ethics

**PHILOS 1175 Religion and the Idea of God: Diverse Perspectives** (LEC 3.0)  
A comparison of the philosophic ideas and foundations of the major Eastern and Western religions. Prerequisite: Entrance requirements.  
PHILOS 1175 - MOTR RELG 100: World Religion

**PHILOS 2000 Special Problems** (IND 0.0-6.0)  
Problems or readings on specific subjects or projects in the department. Consent of instructor required.

**PHILOS 2001 Special Topics** (LEC 0.0-6.0)  
This course is designed to give the department an opportunity to test a new course. Variable title.

**PHILOS 3000 Special Problems** (IND 0.0-6.0)  
Problems or readings on specific subjects or projects in the department. Consent of instructor required.

**PHILOS 3001 Special Topics** (LAB 1.0 and LEC 3.0)  
This course is designed to give the department an opportunity to test a new course. Variable title.

**PHILOS 3204 Science, Souls, and Skepticism: Early Modern Philosophy** (LEC 3.0)  
This course explores how radical shifts in worldview of the early modern period impacted the themes and methods of philosophy, such as empiricism, rationalism, and skepticism, and what we can learn from them today. Figures studied may range from Hobbes, Bacon, and Descartes to Hume. Prerequisites: A previous class in philosophy is recommended.

**PHILOS 3205 Science, Souls, and Skepticism: Early Modern Philosophy** (LEC 3.0)  
This course covers several areas of ethical interest in biotechnology, medicine, and medical care. Topics may include stem-cell research, cloning, genetic engineering, reproductive issues, pharmaceutical ethics, privacy, physician-assisted suicide, patient rights, human and animal experimentation, and resource allocation. Prerequisite: Sophomore standing or above.

**PHILOS 3223 Bioethics** (LEC 3.0)  
This course explores how radical shifts in worldview of the early modern period impacted the themes and methods of philosophy, such as empiricism, rationalism, and skepticism, and what we can learn from them today. Figures studied may range from Hobbes, Bacon, and Descartes to Hume. Prerequisites: A previous class in philosophy is recommended.

**PHILOS 3225 Engineering Ethics** (LEC 3.0)  
Engineering ethics, examines major ethical issues facing engineers in the practice of their profession: the problem of professionalism and a code of ethics; the process of ethical decision-making in different working environments; the rights, duties, and conflicting responsibilities of engineers. Prerequisite: Sophomore standing or above.

**PHILOS 3235 Business Ethics** (LEC 3.0)  
Develop ethical concepts relevant to deciding the moral issues that arise in business. Topics include: Economic systems, government regulations, relations to external groups and environment, advertising, product safety and liability, worker safety and rights, rights and responsibilities of business professionals. Prerequisite: Sophomore standing or above.
PHILOS 3254 Symbolic Logic in Argumentation (LEC 3.0)
An introduction to sentential and predicate logic. Focuses on various
techniques used to examine logical relationships within an artificial
symbolic language, such as truth tables, derivations, and models.
Includes metatheoretic discussions of syntax and semantics, and
soundness and completeness. Prerequisites: Comp Eng 2210, or Comp
Sci 1200, or any 1000-level or higher Philosophy course. Philosophy 1115
is recommended.

PHILOS 3276 Thematics Studies in Film and Philosophy (LEC 3.0)
A study of special topics at the intersection of film and philosophy.
Topics vary but may include films on the nature of reality, films on
the problem of evil, films on concepts of consciousness and the self,
and more. Prerequisites: Art 1185 or one philosophy course, or junior
standing. (Co-listed with Art 3276).

PHILOS 3302 Philosophy in the Middle Ages (LEC 3.0)
A critical study of the important philosophies of the period from
Augustine to the Renaissance. Although there is no formal prerequisite, it
is recommended that students have taken at least one other philosophy
course. Prerequisites: A previous class in philosophy is recommended.

PHILOS 4000 Special Problems (IND 0.0-6.0)
Problems or readings on specific subjects of projects in the department.
Consent of instructor required.

PHILOS 4001 Special Topics (LEC 0.0-6.0)
This course is designed to give the department an opportunity to test a
new course. Variable title.

PHILOS 4320 Minds And Machines (LEC 3.0)
The course will be centered on the topic of artificial intelligence and the
problems raised by contemporary attempts to simulate human thinking
and perception in machines. Special emphasis will be placed on recent
developments in psychology, physiology, cybernetics and computer
technology. Prerequisite: Any philosophy course.

PHILOS 4325 Who Knows What? Knowledge, Truth, and Justification (LEC 3.0)
What is knowledge? Do we have it? Can we know that we have it? How
do we get it? Are there different kinds of knowledge? An introduction
to epistemology, the study of the scope, limits, sources, and nature
of knowledge and justified belief. Possible topics include knowledge
and justification, skepticism, scientific knowledge, and naturalism.
Prerequisites: Any 1000 or higher level philosophy course. Philosophy
1105 recommended.

PHILOS 4330 American Philosophy (LEC 3.0)
A study of American philosophical development with emphasis upon the
"Classical Age of American Philosophy", i.e., Pierce, James, Dewey, Royce,
Santayana and Whitehead. Prerequisite: An introductory (below 2000)
level Philosophy course.

PHILOS 4335 Philosophy Of Religion (LEC 3.0)
A consideration of the major presuppositions of western theism, such
as the existence of god and the cognitive meaningfulness of religious
language. Prerequisite: Any introductory (below 2000) level philosophy
course.

PHILOS 4340 From Activism to Zoos: Issues in Social Ethics (LEC 3.0)
This Communication Emphasized course discusses ethical issues
confronting society and the arguments offered for alternative laws
and public policies. Topics might include: freedom of speech/action,
government regulation, welfare, capital punishment, euthanasia, abortion,
the environment, affirmative action, just wars, foreign aid, world hunger.
Prerequisite: Any philosophy course.

PHILOS 4345 Philosophy Of Science (LEC 3.0)
An examination of the fundamental methods and assumptions of the
sciences, with emphasis on scientific reasoning and theories.
Prerequisite: Any philosophy course.

PHILOS 4350 Environmental Ethics (LEC 3.0)
This Communication Emphasized course studies complex moral
issues concerning our relationship to the environment and the ethical
foundations of our environmental responsibilities. Discussion topics
include: conservation, preservation, resource development, pollution,
toxic substances, future generations, endangered species, regulation,
zoning, and takings. Prerequisite: Any philosophy course.

PHILOS 4354 Mathematical Logic I (LEC 3.0)
A mathematical introduction to logic with some applications. Functional
and relational languages, satisfaction, soundness and completeness
theorems, compactness theorems. Examples from Mathematics,
Philosophy, Computer Science, and/or Computer Engineering.
Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng
2210. (Co-listed with Comp Eng 5803, Comp Sci 5203 and Math 5154).

PHILOS 4360 Who Should Rule and Why? Debates in Political Philosophy
(LEC 3.0)
This course is designed as a survey of the philosophical foundations
of major political systems. For example, liberalism, communitarianism,
communism, fascism, democracy. Materials will be drawn from relevant
historical and/or contemporary sources. Prerequisite: Any philosophy
course.

PHILOS 4368 Law and Ethics in E-Commerce (LEC 3.0)
Provides the ethical framework to analyze the ethical, legal, and social
issues that arise for citizens and computer professionals regarding
the computerization of society. Topics include: free speech, privacy,
intellectual property, product liability, and professional responsibility. (Co-
listed with IS&T 5168).

PHILOS 4399 Topics in Philosophy (LEC 3.0)
This communication intensive course is designed for students with
a special interest in philosophy. The content of the course may vary
and the course may be repeated for additional credit. Prerequisite: Any
Philosophy course.
PHILOS 4580 Issues in Science, Technology and Society (LEC 3.0)
Interdisciplinary course introducing students to the main themes of Science and Technology Studies (STS). Using historical and current examples, they will critically analyze the influence of social groups on the development of science and technology and the effects of science and technology on society. (Co-listed with HIST 4580).

PHILOS 4665 Creating Future Cities (LEC 3.0)
Through texts in the history of philosophy, along with contemporary readings, this class examines how humankind's thinking about urban environments has progressed. It uses philosophical analysis to understand topics such as the ethical, political, aesthetic, and metaphysical dimensions of the city as such, zoning, housing, transportation, & infrastructure. Prerequisites: Sophomore standing or above.

PHILOS 4666 Technology, Ethics, and Philosophy (LEC 3.0)
Students will learn the conceptual tools & skills for reflection on the ethical, social, and philosophical dimensions of life in a technological society. Topics covered might include: philosophy of engineering, artificial intelligence, information ethics, cybernetics, technological unemployment, human enhancement and biotechnology, posthumanism, and others. Prerequisites: Sophomore standing or above.

PHILOS 5000 Special Problems (IND 1.0-3.0)
Problems or readings on specific subjects or projects in the department. Consent of instructor required.

PHILOS 5001 Special Topics (IND 1.0-3.0)
This course is designed to give the department an opportunity to test a new course. Variable title.