

**MTH 411 INTRO TO LINEAR ALGEBRA (3)**  
Anderson, 332 FEN

MEETS: 13:30 MWF, 303 DEA  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 40  
 PREREQUISITES: 2 Terms of calculus or consent of instructor  
 EVALUATION: Hour exams, Homework, and Final Exam  
 DESCRIPTION: To develop a working skill in handling tools of linear algebra. Emphasis will be on doing rather than on theory. There will be very few if any proofs. Solutions to  $n$  linear equations in  $n$  unknowns, vectors or  $n$ -tuples of real numbers, matrices and determinants will all be covered.

**MTH 441 INTRODUCTION TO STATISTICAL THEORY (3)**  
Leahy, 309 FEN

MEETS: 10:30 MWF, 101 GIL  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 40  
 WEEKLY READING: 15-20 Pages  
 PREREQUISITES: Year sequence in calculus or MTH 207-208  
 EVALUATION: 2 Midterms, Final, and Homework  
 READINGS: Hoag and Tanis, PROBABILITY AND STATISTICAL INFERENCE  
 DESCRIPTION: This is an introductory mathematical methods course in statistics. The first term emphasizes probability models, distributions, and statistical ideas within a mathematical setting.  
 COMMENTS: The course is intended for students desiring a post-calculus introduction to the subject of statistics.

**MTH 454G STOCHASTIC PROCESSES (3)**  
Truax, 4 DEA

MEETS: 10:30 MWF, 104 DEA  
 FORMAT: Lecture  
 AVERAGE CLASS SIZE: 15  
 EVALUATION: 30%-Homework; 30%-Midterm; 40%-Final  
 READINGS: Breiman, PROBABILITY AND STOCHASTIC PROCESSES  
 DESCRIPTION: This course develops the theory of Stochastic Processes with a view toward applications. After a review of basic probability theory, it treats the Poisson Process, Markov Chains, continuous time Markov Processes, Gaussian Processes, and Stationary Time Series.  
 COMMENTS: The course presupposes some basic probability such as covered in Math 447. Two years of calculus is also required.

**MTH 461 INTRO TO DIFFERENTIAL EQUATIONS (3)**  
Freeman, 11B DEA

MEETS: 12:30 MWF, 135 Gilbert  
 FORMAT: Lecture  
 AVERAGE CLASS SIZE: 35  
 PREREQUISITES: Mth 331  
 EVALUATION: 20%-Homework; 50%-Midterm; 30%-Final  
 READINGS: Boyce and DiPrima, ELEMENTARY DIFFERENTIAL EQUATIONS AND BOUNDARY VALUE PROBLEMS  
 DESCRIPTION: This course will be devoted mainly to linear second order equations and will include basic methods for studying these including reduction of order,

variation of parameters, and series solutions. If time permits we will also study Sturm-Liouville theory.

## Philosophy

**PHL 202 INTRODUCTION TO PHILOSOPHY: THEORY OF KNOWLEDGE (3)**  
Alexander, 328 PLC

MEETS: 9:30 MWF, 110 Fenton  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 200  
 WEEKLY READING: 40 Pages  
 READINGS: Descartes, THE SEARCH AFTER TRUTH BY THE LIGHT OF NATURE; Berkeley, THREE DIALOGUES BETWEEN HYLAS AND PHILONOUS; Russell, THE PROBLEMS OF PHILOSOPHY; Packet  
 DESCRIPTION: This course will focus upon the nature of perception and its role in the attainment of knowledge, upon philosophical problems concerning obstacles which may prevent the attainment of knowledge, and upon a critical examination of the effectiveness of those obstacles.  
 COMMENTS: Regular and punctual attendance and participation in class discussions are required. Assignments must be regularly and systematically read and they must be read prior to the day for which they are assigned. No excuses for failure to take either quizzes, midterm, or final. No make-up under any circumstances.

**PHL 210 FREE WILL DETERMINISM (3)**  
Herbert, 330 PLC

MEETS: 9:30-10:50 UH, 342 GIL  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 50  
 WEEKLY READING: 30-35 Pages  
 EVALUATION: 45%-Midterm; 55%-Final  
 READINGS: Berofsky, FREE WILL AND DETERMINISM  
 DESCRIPTION: An examination of some of the arguments for determinism, fatalism, and freedom. Several types of determinism and fatalism will be examined.

**PHL 212 EXISTENTIALISM (3)**  
Davie, 317 PLC

MEETS: 10:30 MWF, 204 Condon  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 150  
 WEEKLY READING: 30-50 Pages  
 EVALUATION: 50%-2 Midterms; 50%-Final  
 READINGS: Kierkegaard, Selections; Dostoevsky, NOTES FROM UNDERGROUND; Nietzsche, Selections; Sartre, Selections; Camus, Selections  
 DESCRIPTION: An introduction to the major themes and ideas of Existentialism using both philosophical and literary sources: the primacy of the individual, critique of reason, authentic vs. inauthentic life, alienation, the encounter with nothingness, freedom and choice.  
 COMMENTS: Students have the option of doing in-class or take home essays. The course does not presuppose any background in philosophy.

**PHL 302 HISTORY OF ANCIENT PHILOSOPHY (3)**

Zweig, 332 PLC

MEETS: 9:30 MWF  
 FORMAT: Lecture  
 AVERAGE CLASS SIZE: 70  
 WEEKLY READING: 6 hours  
 EVALUATION: 40%-2 Papers; 30%-2 Midterms; 30%-Final  
 READINGS: Aristotle, THE PHILOSOPHY OF ARISTOTLE; Ackrill, ARISTOTLE THE PHILOSOPHER; Packet  
 DESCRIPTION: We start out with a survey of Aristotle's theories about what is real, what explains the world of nature, the foundations and nature of a good life for human beings, and what is right and wrong about Plato. We then look at Greek philosophy (and Roman) after Aristotle, in the Hellenistic period.  
 COMMENTS: Though there are no prerequisites, students who have had PHL 301 or 304 beforehand will have an easier time of it.

**PHL 305 HISTORY OF MODERN PHILOSOPHY (3)**  
Wilson, 331 PLC

MEETS: 11:30 MWF  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 50  
 WEEKLY READING: 50 Pages  
 EVALUATION: 60%-4 Quizzes; 40%-Paper  
 READINGS: Leibniz, MONADOLGY; Hume, INQUIRY/DIALOGUES; Kant, CRITIQUE OF PURE REASON; Rousseau, DISCOURSE ON INEQUALITY; Voltaire, PHILOSOPHICAL DICTIONARY  
 DESCRIPTION: This course continues the sequence in History of Modern Philosophy into the 18th Century, the Age of Enlightenment. Reading of the major writers of the period and discussion of philosophical problems in metaphysics, epistemology, politics and religion.

**PHL 308 SOCIAL AND POLITICAL PHILOSOPHY (3)**  
Ryan, 338 PLC

MEETS: 9:30-10:50 UH  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 50  
 EVALUATION: 50%-Midterm; 50%-Final  
 DESCRIPTION: Introduction to the social and political philosophies of Hegel and Marx, with special reference to the notion of dialectic. Reference will be made to contemporary philosophical trends, particularly that of post-structuralism.

**PHL 331 PHILOSOPHY IN LITERATURE (3)**  
Wilson, 331 PLC

MEETS: 13:30 MWF  
 FORMAT: Lecture/Discussion  
 AVERAGE CLASS SIZE: 20  
 WEEKLY READING: 50 Pages  
 PREREQUISITES: 1 Course in Philosophy or I  
 EVALUATION: 60%-4 Quizzes; 40%-Paper  
 DESCRIPTION: Readings from Plato, Euripides, Baudelaire, Freud, Valery, and Sartre, on writers and writing. Discussion of philosophical issues e.g. the morality of works of art; mimesis and reality, creativity and the unconscious, raised in these texts.

**PHL 413G ARISTOTLE (3)**  
Zweig, 332 PLC