this course is announced at the time of its offering. Prerequisite: Completion of the Foundations requirement in Philosophy or permission of the instructor.

PHIL 299 Topics in Philosophy (3)  
*Varies*  
This course offers an investigation of selected contemporary topics of philosophical significance and of concern to Christians. The course objectives are three-fold: to develop Christian insight into a common human issue, to do so through the practice of Christian philosophical analysis, and to thereby acquire a broader knowledge of the topic. Topics for this course are announced at the time of its offering. Prerequisite: Completion of the Foundations requirement in Philosophy or permission of the instructor.

PHIL 331 Aesthetics (3)  
*Fall*  
Students explore the fundamental questions concerning art and literature and their place in life, with emphasis upon the possibilities of a Christian position in aesthetic experience and reflection. This course is identical to ART 331. Prerequisite: Completion of the Foundations requirement in Philosophy or permission of the instructor.

PHIL 335 Calvinistic Tradition (3)  
*Spring*  
Students study significant philosophical contributions in the work of thinkers in the Calvinistic tradition from the 17th century to the present with a critical exposition of selected texts. This course is identical to THEO 335. Prerequisite: Completion of the Foundations requirement in Philosophy or permission of the instructor.

PHIL 351 Theories of Society (3)  
*Fall*  
This course is an intensive study of the theories and methodology of the major schools of social thought with special emphasis on theoretical developments in contemporary sociology in Europe and North America. This course is identical to SOC 351. Prerequisite: Completion of the Foundations requirement in Philosophy or permission of the instructor and SOC 121.

PHIL 361 Philosophy of Place (3)  
*Spring, Odd*  
This course is an exploration of the significance of the particular places we inhabit for how we make sense of the world. Through reading, writing, discussion, excursions, and service, this course cultivates attentiveness to place and its call on the lives of Christian persons and communities. Prerequisite: Completion of the Foundations requirement in Philosophy or permission of the instructor.

PHIL 399 Independent Study (3)  
*Varies*  
Prerequisite: Permission of the department.

PHIL 400 Field Education (3)  
*Varies*  
This program of research, designed with a view to the student’s intended profession, is completed with the advice and under supervision by the staff of the philosophy department.

PHIL 401 Senior Seminar I (1)  
*Fall*  
This course is the capstone experience for all philosophy majors, featuring synthetic reflection on the nature and practice of philosophy in the Christian liberal arts within a year-long, advanced level seminar environment hosted by the department’s full-time faculty. This course also meets the field education requirement for philosophy majors.

PHIL 402 Senior Seminar II (2)  
*Spring*  
Continuation of PHIL 401, required for all philosophy majors.

PHYS PHYSICS

PHYS 101 Introductory Physical Science (3)  
*Fall, Spring*  
This course provides an introductory survey of the physical sciences with particular emphasis upon topics selected from physics and chemistry. In addition to studying the science concepts the history of and methods used in science will be reviewed. Designed to fulfill the physical science Foundations requirement for non-science majors. This class includes a laboratory component. $30 Lab Fee.

PHYS 121 General Physics I (4)  
*Fall*  
This course is an introduction to the basic laws and theories of the following main areas of classical physics: mechanics, wave motion, heat, and thermodynamics. This class includes a laboratory component. Prerequisite: minimum ACT composite score of 21 or a grade of C or better in MATH 101 or permission from the instructor for students with ACT scores 18-20. $30 Lab Fee.

PHYS 122 General Physics II (4)  
*Spring*  
This course is a continuation of PHYS 121. This course is an introduction to the basic laws and theories of electricity and magnetism, electromagnetic waves, light and optics, and modern physics. This class includes a laboratory component. Prerequisite: PHYS 121. $30 Lab Fee.

PHYS 211 Calculus-Based General Physics I (4)  
*Fall*  
This course is a calculus-based introduction to the basic laws and theories of the following main areas of classical physics: mechanics, wave motion, heat, and thermodynamics. This class includes a laboratory component. Prerequisite: MATH 111 (or concurrent enrollment). $30 Lab Fee.
PHYS 212 Calculus-Based General Physics II (4)
Spring
This course is a continuation of PHYS 211. This course is a calculus-based introduction to the basic laws and theories of electricity and magnetism, electromagnetic waves, light and optics, and modern physics. This class includes a laboratory component. Prerequisite: PHYS 211. $30 Lab Fee.

PHYS 221 Introduction to Modern Physics (4)
Fall
This course will cover special relativity, Foundations of quantum mechanics, Schrödinger’s equation, atoms and ordering of the Periodic Table, some applications of quantum mechanics, an introduction to spectroscopy, and statistical thermodynamics. The course will provide important concepts that help students build fundamental knowledge of subatomic particle behavior that informs other chemistry coursework. This course is cross listed with CHEM 332. Prerequisite: PHYS 212 & MATH 112.

PHYS 301 Classical Mechanics (4)
Spring, Odd
This course will cover Newton’s Laws and projectiles and charged particles; momentum, energy, and oscillations; calculus of variations; Lagrange’s equations and two-body central-force problems; mechanics in non-inertial frames; rotational motion and coupled oscillators. A strong foundation in classical mechanics will help students understand quantum mechanics, relativity, chaos theory, and parts of string theory. Prerequisites: PHYS 212, PHYS 221, MATH 211, or permission from the instructor. MATH 310 suggested.

PHYS 311 Electricity and Magnetism (4)
Fall, Even
This course will cover vector analysis and electrostatics, special analysis techniques including Laplace’s equation and the method of images, electric fields in matter, magnetostatics, magnetic fields in matter, electrodynamics, conservation laws and electromagnetic waves. Prerequisites: PHYS 212, PHYS 221, MATH 211, or permission from the instructor. MATH 310 suggested.

PHYS 321 Optics (3)
Spring, Even
This course will cover the nature of light, geometrical optics, optical instrumentation, wave equations, superposition of waves, lasers, interference of light, optical interferometry, coherence, fiber optics, fraunhofer diffraction, and the diffraction grating. Prerequisites: PHYS 212, PHYS 221, MATH 211, or permission from the instructor. $30 Lab Fee.

PLSC 121 Introduction to Politics (3)
Varies
This examination of the discipline of political science emphasizes the history and development of political theory. Fulfills the social science Foundations requirement.

PLSC 201 American Government and Politics (3)
Spring
This course in the organization and processes of American national government examines the contemporary socio-political culture, constitutional Foundations, and the major institutions and processes of American politics.

PLSC 244 Law, Justice, and Culture Institute (3)
Varies
The purpose of this course is to prepare students for public service in law, government, and politics by providing worldview training in the Judeo-Christian tradition. In particular, students are introduced to the concept of transcendent moral truth in the Western legal tradition and challenged to integrate the biblical understanding of justice into their lives and career callings. This course is identical to HIST 244.

PLSC 250 United States Constitutional Law (3)
Fall, Odd
This course explores the historical development of the American constitutional heritage, including the political theory underlying this heritage and judicial interpretations of the United States Constitution.

PLSC 260 Politics of Race and Ethnicity (3)
Varies
This course will examine the rich diversity of ethnic communities in the world, especially America, as they have confronted political systems and the need for developing political thought and action. The various meanings of pluralism will be examined from a Christian perspective, especially as they relate to politics. A substantial portion of the course will be in Chicago as a case study of ethnic politics in America. This course is identical to SOC 260.

PLSC 270 Third-World (Non-Western) Politics—CCS (3)
Varies
This course will survey various paradigms for politics in the Third World—democratic, communist, fascist, totalitarian, eclectic, etc. Christian insights will be encouraged as students reflect upon all of the issues associated with “developing” societies, such as poverty, economic exploitation, and technology. Fulfills one of the cross-cultural studies Foundations requirements.

PLSC 301 Political Theory (3)
Varies
Students examine the main contributors to Western political thought, such as Plato, Aristotle, Cicero, Augustine,