

**NOTE:** Participation in all Adrian College musical theatre productions is also expected. For course descriptions, consult listings for the Departments of Theatre and Music.

## **Philosophy/Religion**

### ***Mission Statement***

The majors in Philosophy and Religion teach students to pose and answer questions fundamental to the meaning and significance of life, to human existence, and the nature of reality. Through a series of required and elective courses culminating in a capstone paper and presentation, the programs will prepare the student to demonstrate professionalism in the field, ethical reflection, the place of philosophy or religion in the larger society, and the place of the capstone presentation in the chosen discipline major.

Students interested in philosophy and religion may earn the Bachelor of Arts degree with one of two majors: religion or philosophy. A minor in teaching religion in public schools is available for those majoring in education. The department also offers minors in both philosophy and religion.

In addition to preparing for church-related careers, students majoring in philosophy or religion may enter such fields as counseling, law, business, social work and a variety of service professions at the local, state and national levels. For those planning to enter graduate school or seminary, the department offers a balanced program of preparatory studies.

### ***Major Program Requirements***

#### **Bachelor of Arts in Philosophy (30 hours)**

##### **Philosophy Core (18 hours)**

- PHIL 105 Logic (3)
- PHIL 110 Philosophy and Literature (3)
- PHIL 351 Classical and Hellenistic Philosophy (3)
- PHIL 353 Modern Philosophy (3)
- PHIL 304 Ethics (3)
- PHIL 400 Senior Thesis (3)

##### **Philosophy Electives (12 hours)**

At least 12 additional hours in philosophy, at least six of which must be earned in courses numbered 300 and above.

#### **Bachelor of Arts in Religion (30 hours)**

##### **Religion Core (3 hours)**

- RELG 400 Senior Research Project (3)

##### **Religion Electives (27 hours)**

Any one of the following courses: RELG 101, 102, 105 or 114 (3)  
At least one of the following courses: RELG 302, 308, 310 (3)  
21 additional hours in Religion (at least 21 of the 30 required hours must be earned in courses numbered 300 or above)  
At least one of the religion classes must be a course designated as non-Western.

### ***Minor and Associate Program Requirements***

The academic minors in philosophy or religion require a minimum of 18 semester hours of philosophy or religion courses, respectively, including at least 9 semester hours at the 300-level or above.

### **Ethics**

The Ethics Minor is an interdisciplinary program that examines the concept of moral good and practice applying it in various situations. Study will focus on the history and theory of ethics, various belief systems and specific relevant professional codes.

The goals of the Ethics Minor are to:

1. Enhance the awareness of ethical issues, both at a theoretical and a practical and professional level.
2. Improve critical thinking and moral reasoning in resolving ethical problems

### **Minor Program Requirements**

The minor in Ethics requires the completion of a minimum of 18 semester hours (9 hours of more at the 300 level), including: PHIL 104 or RELG 114 and PHIL 304 (Ethics) and at least four other courses from among the following: PHIL 102, PHIL 104, PHIL 201, PSYC 304, SOCW 200, BAD 346, COMM 280.

Other non-listed courses may also be applied to the minor if approved by the Department Chair. At least one course must come from a department other than Religion and Philosophy.

The Associate of Arts degree in philosophy/religion requires a minimum of 18 semester hours in the department with 9 hours at or above the 300 level.

The semesters listed after course descriptions indicate when courses are expected to be offered. Schedules are subject to change; students should confirm semester offerings with the department when planning degree programs.

### **Philosophy**

**101.** Introduction to Philosophy (RELIGION/PHILOSOPHY) (3). The meaning and scope of philosophy and the major problems with which it is concerned. Fall.

**102.** Contemporary Moral Problems (RELIGION/PHILOSOPHY) (3). An introduction to philosophical perspectives on some of the important ethical controversies facing our society, with a focus on developing and critically analyzing reasons used to support a moral position. Topics vary, but may include abortion, cloning, the legalization of drugs, physician assisted suicide, animal rights, and the death penalty.

**104.** Introduction to Ethics (RELIGION/PHILOSOPHY) (3). This course is an introduction to moral theory. We will address questions such as: What does it mean to flourish as a human being? What makes actions right or wrong? Are there moral facts, or is it all just subjective? Students will be encouraged to discuss, share, and defend their own views. Fall.

**105.** Logic (RELIGION/PHILOSOPHY) (3). How arguments are formulated and evaluated, analysis of the role of language in communication and training in the detection of common fallacies. Includes categorical, propositional, and predicate logic. Taught occasionally.

**110.** Philosophy through Film (RELIGION/PHILOSOPHY) (3). This course aims to examine and critically evaluate various philosophical themes by means of the visual medium of film. Such themes include: human nature, the nature of reality, and moral problems. Films may include popular releases, silent films and surrealist films. The course will also integrate philosophical texts. Offered each fall.

**129.** Introduction to Women's Studies (3). An introduction to basic women's studies concepts and theories, drawing on methodologies and content of multiple disciplines. Explores the social and psychological processes by which individuals establish gender identity, the institutions that shape gender identity and the articulation of gender across racial and socio-economic categories.

**201.** Introduction to Jurisprudence (4). This course is an introduction to the theoretical and philosophical underpinnings of the United States judicial system. It will investigate the concept of "law" as it has been applied throughout the course of western civilization. It will also explore the works of philosophers who inspired the authors of the U.S. Constitution and Bill of Rights, the origins of the various schools of judicial philosophy and the often complicated relationship between moral and legal reasoning.

**205.** Writing and Argument (3). This course will focus in the development of the skills involved in philosophical reading, writing, and oral presentation. We will be working with philosophical materials; however the goal of the course is the development of proficiency with these skills. (Prerequisite: One philosophy course.)

**300.** Topics in Philosophy (3). A special topic or topics including practical applications of philosophy or the relationship of philosophy to other aspects of life. Offered as needed.

**301.** Philosophy of Religion (3). An inquiry into the scope and function of religion, the nature and destiny of human beings, the existence and nature of God and other selected problems. (Prerequisite: one course in religion or philosophy.) Taught as needed.

**304.** Ethics (3). An examination of the major ethical theories of ancient and modern times and their impact upon traditional and contemporary ethical problems. Special attention is paid to the development of ethical thinking and the application of ethical theory to contemporary moral problems. (Prerequisite: one course in religion or philosophy.)

**321.** Science, Skepticism and Faith (3). Basic course in epistemology and metaphysics. Topics include the distinction between scientific and non-scientific types of knowledge (if any), the difference between "belief" and "knowledge" (if

any), theories of "truth", and the case for and implications of skepticism. (Prerequisites: one previous course in religion or philosophy). Taught occasionally.

**325.** Theology on Film (3). See Religion 325 for course description.

**328.** Liberation Theology (3). See Religion 328 for course description.

**329.** Feminist Thought (3). See Religion 329 for course description.

**331.** Philosophy of Law (3). This course examines the theoretical and philosophical aspects of law. Materials will be drawn from actual legal cases, as well as writings by philosophers and lawyers. Topics may include legal reasoning, the nature and purpose of law, criminal responsibility, negligence, civil disobedience, the relationship of law and morality, and omissions and the duty to rescue (Prerequisites: one previous course in religion or philosophy.)

**332.** Contemporary Social and Political Philosophy (3). An examination of fundamental concepts and issues in political theory, such as the justification and limits of political authority, and the relationship between the individual and the community, the nature of freedom and obligation, and the obligation to obey the law. (Prerequisites: one previous course in religion or philosophy.)

**334.** An exploration of the philosophical dimensions of sports and their ethical implications. This includes metaphysical, ontological and epistemological foundation which shape roles, codes and rules that define sports. Yearly or alternate years.

**344.** Biomedical Ethics (3). Ethical issues created by recent advances in medical technology, including questions such as the relationship between the health care provider and the patient; truth and information; autonomy and diminished capacity; and genetic engineering within the context of moral reasoning. (Prerequisite: one course in religion or philosophy.) As needed.

**351.** Classical and Hellenistic Philosophy (3). Examination of the philosophical systems of the Ancient Greeks and Romans. Special attention given to the work of Plato and Aristotle. (Prerequisites: one previous course in religion or philosophy.)

**352.** Christian Heresies and Orthodoxies (3). See Religion 352 for course description.

**353.** Modern Philosophy (3). Exploration of the foundations of modern philosophy, including the contributions of Descartes, Hume and Kant. (Prerequisites: one previous course in religion or philosophy.)

**354.** 19th and 20th-Century Christian Theology (3). See Religion 354 for course description.

**400.** Capstone: Senior Thesis (3). Senior research project stressing the application of research skills and the synthesis of knowledge in the discipline of philosophy. (Prerequisite: Senior philosophy major).

## Religion

**101.** Reading the Bible: History, Theology, Story (RELIGION/PHILOSOPHY) (3). An introduction to the literary, historical, and theological dimensions of the Bible, and to the methods and theories of biblical criticism, with emphasis on the role of the reader in the creation of meaning, and on the relationship of the Bible to contemporary social issues. Fall.

**102.** Religions of the West (RELIGION/PHILOSOPHY) (3). Survey of major monotheistic traditions in the West: Judaism, Christianity and Islam. Emphasis on the major forms of these three faiths including Traditional and Reform Judaism, Eastern Orthodox, Roman Catholic and Protestant Christianity, and Sunni and Shiite Islam. Attention will be given to historical origins, daily practices and holidays, and contemporary issues. Fall.

**105.** Religions of the East (RELIGION/PHILOSOPHY, NON-WESTERN) (3). Primal religions, religion in Africa, Hinduism, Buddhism, Jainism, Taoism, Confucianism and Shintoism, introducing the basic concepts and concerns of these religions. The major emphasis is on the religions of India, China and Japan.

**106.** Religions in America (RELIGION/PHILOSOPHY) (3). Emphasis on Christianity, Judaism, Afro-American and Native American traditions in America, religion's role in shaping American culture and special attention to recent developments.

**108.** Myth, Ritual and Symbol (RELIGION/PHILOSOPHY, NON-WESTERN) (3). An exploration of the world's dominant religious and secular worldviews focusing on the myths, rituals and symbols contained in their sacred texts. The material is divided equally between Western and Eastern religions. Fall.

**110.** World Christianities (RELIGION/PHILOSOPHY) (3). Study of the contemporary situation of the Christian tradition worldwide. Focus on Christianity in discrete geographical areas, and the diversity and richness of Christian cultures. Areas of study include Eastern Orthodoxy, Christianity in Africa, Asia, and Latin America, the rise of Pentecostalism, and Christians in relation to other religious traditions. Spring.

**112.** Jesus in Mass Production (RELIGION/PHILOSOPHY) (3). A wide-ranging and multifaceted exploration into the many faces of the figure of Jesus, through a variety of genres and media. In addition to the New Testament writings and contemporaneous extra biblical literature, the course engages modern and postmodern interpretations in novels, film, art, pop culture, and other contexts, including perspectives from outside the United States. Spring.

**114.** Christian Social Ethics (RELIGION/PHILOSOPHY) (3). Contemporary social problems and their relationship to Christianity. Attention given to the historical development of various Christian approaches to social issues, emphasizing current social engagement.

**116.** Religion on Film (RELIGION/PHILOSOPHY) (3). Exploration of the religious issues reflected in popular films, with special attention on the relationship between beliefs, practices, and media. Spring.

**118.** Drugs and Religious Experience (RELIGION/PHILOSOPHY, NON-WESTERN) (3). An exploration of the ritual use of hallucinogenic drugs in sacred culture. The central issue of the course is the relationship between such drugs and religious experience. Examples are taken from various traditions from the Americas and Asia. May Term only.

**300.** Topics in Religion (3). A special topic or topics, including specific religions or the relation of religion to other aspects of life. (Prerequisite: one course in religion or philosophy.) Offered as needed.

**301.** Philosophy of Religion (3). See Philosophy 301 for course description.

**303.** Literature of the Hebrew Bible (3). In-depth exploration of the scriptures shared by Jews and Christians, with detailed study of select passages, attending particularly to the characteristic diversity of these texts, to the historical and contemporary cultures that surround them, and to the relationship between methodological perspectives and interpretative issues. (Prerequisite: RELG 101 or ENGL 230 or by permission of instructor.)

**304.** New Testament Writings (3). In-depth exploration of the scriptures unique to Christianity, with detailed study of select passages, attending particularly to the characteristic diversity of these texts, the historical and contemporary cultures that surround them. Their relationship to early Christianity and the figure of Jesus, and methodological questions central to their interpretation. (Prerequisite: RELG 101 or ENGL 230 or by permission of instructor.) Spring.

**306.** Issues in American Religious History (3). Specific issues and movements in American religion and their interrelationships with the larger American culture. Special attention is placed on the impact of these issues and movements on the contemporary situation. Topics include social Christianity, fundamentalism and Pentecostalism, civil religion, church and state, sects and cults and denominational history. (Prerequisite: one course in religion or philosophy.)

**307.** Sociology of Religion (3). Methods and issues of the qualitative approach to sociology of religion. Emphasis on the construction, maintenance and function of religious organizations and groups; and, the construction of religious identity, and the function of religious worldviews and ritual processes in maintaining that identity. (Prerequisites: one previous course in religion or philosophy.)

**308.** Native American Sacred Traditions (NON-WESTERN) (3). An introduction to the worldviews and sacred traditions which form the basis of American Indian social, political, economic and material structures. Emphasis is on the intrinsic relationship between religion and culture in American Indian societies. A variety of cultures are examined, including tribes from the Great Lakes, Plains and Southwest. (Prerequisite: one course in religion or philosophy.)

**310.** Women in World Religions (NON-WESTERN) (3). Themes and issues in the traditions and texts of Buddhist, Hindu, Jewish, Christian and Muslim religions with particular attention to the role of women. Topics will include: images of women in sacred scriptures and historical traditions, ritual practices, sources of religious authority, and psychological and ethical implications of feminist approaches to religion. (Prerequisites: one previous course in religion or philosophy.)

**315.** Buddhism (RELIGION/PHILOSOPHY, NON-WESTERN) (3). An examination of Buddhism as a major religion in South and East Asia focusing on its core concepts, beliefs, and practices giving attention to its major divisions (Theravada, Mahayana, and Vajrayana) and the most important schools within those traditions. (Prerequisites: One course in religion or philosophy)

**316.** Religion in/and American Education (2-3). An exploration of the legal issues related to professional educators and the place and role of religion in the public schools; the diversity of religious traditions within school communities; and religious perspectives that students and parents may bring into the public school setting. (Prerequisite: one course in religion or philosophy.)

**319.** The Origins of Protestantism (3). Principal figures and religious, political, social, and economic factors that contributed to the development of Protestantism from the 16th through the 18th centuries. (Prerequisites: one previous course in religion or philosophy.)

**328.** Liberation Theology (3). During the 20th Century a number of movements within Christianity turned to the teachings of Jesus and Hebrew prophets, and Marxist social analysis, to argue and work for social justice. Examines the origins of Liberation Theology in Latin America in the 1960s and the Black Power struggle in the U.S. Other topics include Feminist, Womanist, Ecological and Gay/Lesbian liberation theologies. (Prerequisites: one previous course in religion or philosophy.)

**329.** Feminist Ethics (3). Feminist approaches to literary theory, religious studies, anthropology, psychology, and philosophy and their possible effect on contemporary ethical issues. (Prerequisites: one previous course in religion or philosophy.)

**330.** Advanced Studies in Bible (3). In-depth study of selected texts, themes, or topics in or pertaining to the Jewish and/or Christian scriptures and/or relevant extra-biblical literature. Emphasis is on matters of theory and method, both historical and literary. Repeatable with different top-

ics. (Prerequisite: RELG 101 or ENGL 230 or by permission of instructor.) Fall.

**335.** Japanese Religion (RELIGION/PHILOSOPHY, NON-WESTERN) (3). An examination of the interrelationship between the dominant religious traditions of Japan and the ways in which people express those traditions culturally. The emphasis is on the cultural dimension of Shinto, Buddhism, and Confucianism and their historical interactions.

**340.** Religion and Environmental Ethics (3). Examines whether the Judeo-Christian traditions can provide rationales that will persuade human beings from destroying other species, their habitats and the greater biosphere of our planet. We will examine Judeo-Christian texts and discern the extent to which they provide promising foundations for environmental ethics. (Prerequisites: one previous course in religion or philosophy) Fall.

**345.** Chinese Religion (RELIGION/PHILOSOPHY, NON-WESTERN) (3). An examination of the interrelationship between the dominant religious traditions of China and the ways in which people express those traditions culturally. The emphasis is on the cultural dimension of Daoism, Buddhism, and Confucianism and their historical interactions. (Prerequisite: one course in religion or philosophy.)

**352.** Christian Heresies and Orthodoxies (3). Development of Christian theology from Jewish and Hellenic thought. Focus on major leaders, thinkers, and movements during this time. Emphasis on Augustine, Pseudo-Dionysius, and Aquinas. (Prerequisites: one previous course in religion or philosophy.)

**354.** 19th and 20th-Century Christian Theology (3). Continental Theology from Schleiermacher and Hegel to the present. Will include dialectical thinkers, existentialists, feminists, and liberationists. (Prerequisites: one previous course in religion or philosophy.)

**385.** Ancient Fiction: Sex, Shipwrecks, and Gods (3). Examines the history, place culture, readership, and literary dynamics of select Greek, Latin, Jewish, and early Christian novelistic literature from the first four centuries of the Common Era. Emphasizes matters of theory and method in relation to interpretation, and considers the relationship of prose fiction to various issues of identity. (Prerequisites: one previous course in religion or philosophy or ENGL 230 or by permission of instructor.)

### *Special and Advanced Courses*

**199.** Exploratory Internship (1-3).

**299.** Experimental Course (1-3).

**399.** Professional Internship (1-12).

**400.** Senior Research Project (3). A special project stressing the application of research skills and the synthesis of knowledge in the discipline(s) of philosophy and/or religion. Required of all majors.

451. Independent Study (1-3). (Prerequisite: written departmental permission.)

499. Advanced Experimental Course (1-3).

## **Physics**

### **Mission Statement**

Physics is the study of the fundamental laws that govern matter and energy in the universe. An undergraduate degree in physics not only provides the foundation necessary for graduate study in physics and related disciplines, but is also excellent preparation for professional work in fields such as astrophysics, biophysics, education, engineering and applied physics, geophysics, and medical physics. Students planning to enter graduate school should complete requirements for the Bachelor of Science

degree. These students are also encouraged to meet with a physics faculty member as early as possible to discuss specific course recommendations.

### **Major Program Requirements**

#### Bachelor of Arts in Physics

(30 hours and 18-19 hours of cognates)

##### **Physics B.A. Core (15 hours)**

PHYS 205	General Physics I (3)
PHYS 206	General Physics II (3)
PHYS 209	General Physics Laboratory I (1)
PHYS 210	General Physics Laboratory II (1)
PHYS 320	Electronics (4)
PHYS 370	Modern Physics
or PHYS 380	Nuclear Radiation Physics (3)

##### **Physics B.A. Electives (15 hours)**

##### **Physics B.A. Cognates (18-19 hours)**

CIS 106	Computer Programming (3)
MATH 135	Calculus and Analytical Geometry I (4)
MATH 205	Calculus and Analytical Geometry II (4)
MATH 215	Calculus and Analytical Geometry III (4)
or MATH 305	Differential Equations (3-4)
A 4-hour laboratory science course in biology, chemistry or geology.	

#### Bachelor of Science in Physics

(30 hours and 28-29 hours of cognates)

##### **Physics B.S. Core (15 hours)**

PHYS 205	General Physics I (3)
PHYS 206	General Physics II (3)
PHYS 209	General Physics Laboratory I (1)
PHYS 210	General Physics Laboratory II (1)
PHYS 320	Electronics (4)
PHYS 370	Modern Physics
or PHYS 380	Nuclear Radiation Physics (3)

##### **Physics B.S. Electives (15 hours)**

15 hours of 300- or 400- level courses

##### **Physics B.S. Cognates (18 hours)**

CIS 106	Computer Programming (3)
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MATH 135, 205, 215	Calculus I, II, III (4, 4, 4)
MATH 305	Differential Equations (3)

### **Cognate Electives (10-11 hours)**

4 hours of a non-Physics laboratory course and 6 hours of mathematics courses numbered 303 and above OR 11 hours in either biology, chemistry or geology, including 3 hours numbered 300 or above.

Math 303 and Chem 321 are recommended electives for students who plan to study physics at the graduate level.

### **Minor and Associate Program Requirements**

The Associate of Arts degree in physics requires a minimum of 12 semester hours in the department, including Physics 205, 206, 209 and 210 and 8 semester hours of mathematics including Mathematics 135 and 205.

A student working toward a minor in physics will complete at least 20 semester hours in the department, including Physics 205, 206, 209, 210, 370 and 9 hours of electives. Additional requirements are Computer Science 106 and Mathematics 135, 205, and 215 or 305.

The semesters listed after course descriptions indicate when courses are expected to be offered. Schedules are subject to change; students should confirm semester offerings with the department when planning degree programs.

**101, 102.** Introductory Physics I, II (3, 3). This two-semester course sequence is an algebra-based survey of physics. Topics include mechanics, thermodynamics, electricity, and magnetism, and modern physics. Three lectures per week. (Prerequisites: high school algebra and trigonometry for PHYS 101; PHYS 101 is prerequisite for PHYS 102.) Fall, spring.

**103.** Introductory Physics Laboratory I (NATURAL SCIENCE) (1). Through experiments, students explore and verify many concepts in classical physics. Topics are drawn from mechanics, wave motion, sound, and thermodynamics. One 3-hour laboratory per week. (Prerequisite or corequisite: Physics 101.) Fall.

**104.** Introductory Physics Laboratory II (1). Through experiments, students explore and verify many concepts in classical physics. Topics are drawn from electricity, magnetism, optics, and modern physics. One 3-hour laboratory per week. (Prerequisite or corequisite: Physics 102.) Spring.

**113.** Topics in Physics (3). Introductory-level topics in physics intended for non-science majors. Topic may vary with semester. May be repeated with different topic. (Prerequisite: open to students qualified to take Math 101)

**114.** Topics in Physics Laboratory (NATURAL SCIENCE) (1). Laboratory associated with introductory-level Topics in Physics. One laboratory session per week. (Corequisite: PHYS 113)

**205, 206.** General Physics I, II (3, 3). This two-semester