

business, chemistry, social work and other fields. Prior to declaration for a minor in Health Services, student must receive advising and approval from the School of Nursing. The Health Services minor requires the completion of 18 semester hours.

Required Core Courses	
NURS 100: Medical Terminology	1 or 2
NURS 460: Health Care Systems and Policy	2
PHIL 223: Biomedical Ethics	4

At least three courses from the following areas:

Diversity	
ANTH 102: Introduction to Human Cultural Diversity	4
ANTH 380: Sickness, Madness and Health	4
HEED 365: The Aging Experience: Worlds of Difference	4
NURS 365: Culturally Congruent Healthcare	4
PHED 362: Healing Arts of the Mind and Body	4

Administration	
ECON 323: Health Economics	4
NURS 420: Introduction to Leadership and Resource Management in Nursing	4
NURS 530: Resource Management	3

Physiologic Functioning	
NURS 280: Human Pathological Processes	4
NURS 330: Pharmacology & Therapeutic Modalities for Nursing	4
PHED 480: Exercise Physiology	4

Applied Health Care	
HEED 266: Nutrition, Health and Performance	4
HEED 281: Injury Prevention and Therapeutic Care	2
NURS 270: Health Assessment and Promotion	4
PHED 384: Foundations of Health & Fitness Mgmt	3

No more than eight semester hours from any one department will be counted toward the minor.

#### **MASTER OF SCIENCE IN NURSING (M.S.N.)**

Consult the Graduate Section of this catalog for details of the program leading to the Master of Science in Nursing degree and/or contact the School of Nursing Graduate Program on page 145 (253.535.7672)

#### **ENTRY-LEVEL MASTER OF SCIENCE IN NURSING (EL-M.S.N.)**

A cohort program designed for those who have previously earned a baccalaureate or higher degree in an academic discipline other than nursing. Those interested are strongly advised to seek early advisement from the School of Nursing at

253.535.8872. See Graduate Studies section of this catalog for further details.

#### **SCHOOL NURSE CERTIFICATION**

Contact the School of Nursing Continuing Nursing Education Office (253.535.7683).

#### **Workshops and Short Courses**

Contact the School of Nursing Continuing Nursing Education Office (253.535.7683).

The information contained herein reflects an accurate picture of the programs of study leading to degrees in Nursing from Pacific Lutheran University at the time of publication. However, the university reserves the right to make necessary changes in procedures, policies, calendar, curriculum and costs.

#### **Curriculum Sequence**

All nursing courses are sequential for students admitted to the nursing major, regular status or provisional. Successful completion of all courses in one semester is prerequisite to enrollment in the next semester's courses. All students admitted to the nursing major must adhere to the curriculum sequence as outlined by their approved academic program contracts. Failure to progress according to program plan for any reason may result in dismissal or a significant delay in graduation.

To view Nursing (NURS) courses, go to the PLU Directory of Approved Courses on page 199.

## Philosophy

253.535.8306

[www.plu.edu/philosophy](http://www.plu.edu/philosophy)

[phil@plu.edu](mailto:phil@plu.edu)

Philosophy is the parent academic discipline that gave birth to today's variety of arts and sciences. It examines basic issues in all fields and explores connections among diverse areas of life. In philosophy the most fundamental and enduring of questions are addressed: How can humans gain knowledge about their world? What limits are there to that knowledge? What is the ultimate nature of the universe? In particular, what is the nature of the human person, and what role or purpose is ours? How should we live? Are there moral, aesthetic, and religious values that can be adopted rationally and used to guide our decisions? Study in philosophy acquaints students with major rival views of the world, encourages them to think precisely and systematically, and helps them to see life critically, appreciatively, and whole.

**Faculty:** G. Johnson, *Chair*; Cooper, Kaurin, McKenna, Phelps, van Hollebecke.

#### **Uses of Philosophy**

Courses in philosophy help students who (1) recognize philosophy as a central element in a quality liberal arts education; (2) wish to support their undergraduate work in other fields, such as literature, history, political science, religion, the sciences, education, or business; (3) plan to use their study of philosophy in preparation for graduate study in

law, theology, or medicine; or (4) are considering graduate work in philosophy itself, usually with the intention of teaching in the field.

Undergraduate study in philosophy is not meant to train specifically for a first job. Instead, it serves to sharpen basic skills in critical thinking, problem solving, research, analysis, interpretation, and writing. It also provides critical perspective on and a deep appreciation of ideas and issues that have intrigued humanity throughout the ages, including those central to the Western intellectual heritage. This prepares students for a great variety of positions of responsibility, especially when coupled with specialized training in other disciplines. Those with the highest potential for advancement generally have more than just specialized training; rather, they bring to their work breadth of perspective, intellectual flexibility and depth, and well-honed skills in critical thought and communication.

#### *Why a Philosophy Requirement*

Students who take philosophy engage in a systematic and sustained examination of the basic concepts of life, such as justice, knowledge, goodness, and the self. By scrutinizing methods, assumptions, and implications, they are able to explore lifelong questions of meaning, thought, and action. They acquire historical perspective on the diversity of human thought and tolerance for the considered opinions of others. Through the collective exploration of, and reasoned argument over, difficult ideas, students develop autonomy in their decision-making. Philosophy is vital to the formation of meaning and purpose in students' lives and provides an indispensable framework for developing a sense of vocation - Who am I? What values should we hold? What really is the common good to which I might contribute? What kind of life should I live? In short, the active study of philosophy is essential "to empower students for lives of thoughtful inquiry, service, leadership and care — for other persons, for the community and for the earth."

#### *General Education Program (GenEd) Element*

The GenEd element of four semester hours in philosophy may be satisfied with any course offered except for PHIL 233: Formal Logic.

The initial course in philosophy is customarily PHIL 121, PHIL 125, or a 200-level course that provides a more focused topic but is still at the introductory level (PHIL 220, 223, 228, 230, 238, 253). The 300-level courses are suited for students with particular interests who are capable of working at the upper-division level. Courses offered through correspondence, on-line, and independent studies are not accepted to meet the general university requirement in philosophy.

#### **BACHELOR OF ARTS MAJOR**

*Minimum of 32 semester hours, including:*

- PHIL 233, 499
- One course from PHIL 331, 333, 334
- One course from PHIL 335, 336, 338
- On approval of the department, one course (four hours) in another field of study may be used for a double major in

philosophy if it has a direct relationship to the student's philosophy program. Transfer students will normally take 16 or more of their 32 hours at PLU. Students intending to major in philosophy should formally declare this with the department chair and choose a departmental advisor

- Students must be a declared philosophy major in order to be eligible for departmental scholarships.

#### **Honors Major**

In addition to the above requirements for the major:

**PHIL 493: Honors Research Project**, including an honors thesis written under the supervision of one or more faculty members and presented to the department.

Completion of the departmental reading program of primary sources. Honors majors in philosophy are expected to complement their regular courses by reading and discussing three or four important works under the personal supervision of department faculty. The reading list should be obtained at an early date from the department chair. It is best that the reading program not be concentrated into a single semester, but pursued at a leisurely pace over an extended period.

At least a 3.30 grade point average in philosophy courses, including at least a "B" in PHIL 493.

#### **MINOR**

**16 semester hours, including at least four upper-division hours.**

For transfer students, at least eight hours must be taken at PLU. Non-PLU courses must be approved by the department chair.

*To view Philosophy (PHIL) courses, go to the PLU Directory of Approved Courses on page 203.*

## Physics

253.535.7534

[www.nsci.plu.edu/physics@plu.edu](http://www.nsci.plu.edu/physics@plu.edu)

Physics is the scientific study of the material universe at its most fundamental level: the mathematical description of space and time, and the behavior of matter from the elementary particles to the universe as a whole. A physicist might study the inner workings of atoms and nuclei, the size and age of the universe, the behavior of high-temperature superconductors, or the life cycles of stars.

Physicists use high-energy accelerators to search for quarks; they design new laser systems for applications in medicine and communications; they heat hydrogen gases to temperatures higher than the sun's core in the attempt to develop nuclear fusion as an energy resource. From astrophysics to nuclear physics to optics and crystal structure, physics encompasses some of the most fundamental and exciting ideas ever considered.

**Faculty:** Louie, *Chair*; Gerganov, Greenwood, Hay, Rush, Starkovich.

community settings. Topics will include: history of assessment and its role in physical activity promotion; purpose and methods for pre-evaluation and screening; assessment and evaluation techniques; prescriptive program development for health and fitness; bio-psycho-social implications of assessment and evaluation. (3)

**PHED 384: Foundations of Health and Fitness Management**

Provides students involved in the promotion of physical activity with the basic knowledge necessary to understand how health and fitness are managed in a variety of community settings. Topics will include: historical and philosophical basis of community-based health and fitness management; organizational assessment and evaluation issues; strategies for behavioral change; strategies for program development, implementation and marketing; specific examples of different community-based health and fitness management programs. (3)

**PHED 386: Social Psychology of Sport and Physical Activity**

Questions of how social psychological variables influence motor behavior and how physical activity affects the psychological make up of an individual will be explored. (4)

**PHED 387: Special Topics in Physical Education**

Provides the opportunity for the exploration of current and relevant issues in the areas of physical education and exercise science. (1-4)

**PHED 390: Applied Exercise and Sport Psychology**

A practical, individually-oriented course designed to teach athletes, trainers, coaches, and teachers a comprehensive variety of skills and techniques aimed at enhancing sport performance. Psychological topics include: managing anxiety, imagery, goal setting, self-confidence, attention control, injury interventions, self-talk strategies, and team building. (4)

**PHED 411: Coaching Effectiveness**

Presents foundational knowledge essential for coaching effectiveness and success in any sport at a youth, club, or school level. This course integrates sport science research with emphasis on practical applications. Organization of this course will be based on topics such as: coaching philosophy and ethics, communication and motivation, principles of teaching sport skills and tactics, evaluation, and team administration, organization, and management including liability prevention. The course is designed to meet or exceed NCACE, NASPE, PCA, and ASEP standards. (4)

**PHED 462: Dance Production**

An advanced choreography course combining choreography, costume design, staging, and publicity techniques for producing a major dance concert. (2)

**PHED 478: Motor Learning and Human Performance**

Provides basic theories, research, and practical implications for motor learning, motor control, and variables affecting skill acquisition. (4)

**PHED 480: Exercise Physiology**

Scientific basis for training and physiological effect of exercise on the human body. Lab required. **Prerequisite:** BIOL 205, 206. (4)

**PHED 486: Applied Biomechanics/Kinesiology**

Opportunity to increase knowledge and understanding about the human body and how the basic laws of mechanics are integrated in efficient motor performance. (3)

**PHED 490: Curriculum, Assessment, and Instruction**

An integrated and instructionally aligned approach to curriculum design, assessment, development and implementing instructional strategies consistent with the Washington Essential Academic Learning Requirements. Intended as the final course prior to a culminating internship, a practicum in the school setting is required in conjunction with the four semester hour course. (4)

**PHED 495: Internship – SR**

Pre-professional experiences closely related to student's career and academic interests. **Prerequisites:** Declaration of major, junior status, and ten hours in the major. (2-8)

**PHED 499: Capstone: Senior Seminar – SR (2-4)**



**Philosophy (PHIL)**

**PHIL 121: The Examined Life – PH**

Introduces philosophy by considering perennial topics and issues, such as what makes an action right or wrong and whether belief in God is reasonable. Includes a focus on developing skills in critical and systematic thinking. (4)

**PHIL 125: Ethics and the Good Life – PH**

**Major moral theories of Western civilization, including** contemporary moral theories. Critical application to selected moral issues. (4)

**PHIL 220: Women and Philosophy – A, PH**

An examination and critique of historically important theories from Western philosophy concerning women's nature and place in society, followed by an examination and critique of the writings of women philosophers, historic and contemporary. (4)

**PHIL 223: Biomedical Ethics – PH**

An examination of significant controversies in contemporary biomedical ethics, of major moral philosophies, and of their interrelationships. (4)

***PHIL 224: Military Ethics – PH***

An examination of major ethical theories (Aristotle, Stoicism, Kant and Mill) and their applications to current moral issues in warfare and the military including: morality of war, laws of war, military culture and the warrior ethos, the role of the military in international affairs and terrorism. (4)

***PHIL 225: Business Ethics – PH***

Application of moral theories and perspectives of relevance to business practices. Examination of underlying values and assumptions in specific business cases involving, e.g., employer-employee relations, advertising, workplace conflict, and environmental and social responsibilities. Pass/fail options do not apply to business majors either declared or intending to declare. (4)

***PHIL 227: Philosophy and Race - PH***

An examination of philosophical assumptions behind concepts of race. Beginning with the question “what is race?” the course addresses the notion of racial identities, metaphysical issues surrounding racial designations, and the ethical/political effects of such questions. (4)

***PHIL 228: Social and Political Philosophy – PH***

An examination of major social and political theories of Western philosophy (including Plato, Hobbes, Locke, Rousseau, Mill, Marx). Includes feminist and non-Western contributions and critiques. Can count for a Political Science minor. (4)

***PHIL 230: Philosophy, Animals, and the Environment – PH***

Examines issues such as resource distribution and consumption, obligations to future generations and the nonhuman life. Various moral theories are examined and applied to ethical issues such as preservation of endangered species, animal experimentation, factory farming, resource consumption, pollution, and population growth. Concepts such as wilderness, nature/natural, and consciousness are also addressed. (4)

***PHIL 233: Formal Logic***

Principles of sound reasoning and argument. Development and practical use of formal logical systems, with a focus on symbolic logic. Includes an introduction to inductive and abductive reasoning. Not for philosophy core requirement; counts toward Option III of the College of Arts and Sciences requirement. (4)

***PHIL 238: Existentialism and the Meaning of Life - PH***

An introduction to the philosophical movement known as Existentialism. The course will explore themes central to human experience (such as alienation, guilt, suffering, joy and boredom), with a goal of asking how existentialism engages these ideas relative to the question of human meaning. As an introductory course we will survey specifically the major thinkers of this tradition and illustrate how existentialism connects to other areas such as religion, psychology and literature. (4)

***PHIL 239: Philosophy of Love and Sex - PH***

An examination of philosophical issues surrounding theories and attitudes concerning intimacy, with special attention given to the ethical issues involving love and sex. (4)

***PHIL 240: Science, Reason and Reality - PH***

Investigates influential 20th-century understandings of science’s aims, methods, and limits. Includes concerns raised by Thomas Kuhn and others about the rationality of science and its ability to provide objective knowledge. (4)

***PHIL 253: Creation and Evolution – PH***

Examination of the controversy surrounding the origin of life. Includes a historical introduction to the controversy; investigation into the nature of science, faith, evidence, and facts; and critical evaluation of three major origin theories: creationism, theistic evolution, and non-theistic evolution. (4)

***PHIL 287: Special Topics in Philosophy - PH***

Explores an area of contemporary interest through the lens of philosophical inquiry. Acquaints students with the questions, methods, and skills of philosophy. May be repeated once for credit. (4)

***PHIL 328: Philosophical Issues in the Law – PH***

An examination of philosophical issues in law using actual cases as well as philosophical writings. Topics may include the nature of law, judicial reasoning, rights, liberty, responsibility, and punishment. **Prerequisite:** One previous philosophy course, or POLS 170, or permission of instructor. (4)

***PHIL 330: Studies in the History of Philosophy – PH***

In-depth study of major figures, texts, and topics in a selected historical period. These may include: ancient, sixteenth to eighteenth century, Kant and the nineteenth century. May be repeated for credit. (4)

***PHIL 331: Ancient Philosophy - PH***

The development of philosophical thought and method from the Presocratic period to the end of the fourth century CE. Emphasis on Plato and Aristotle. (4)

***PHIL 332: Themes in Contemporary Philosophy – PH***

In-depth study of selected themes and issues in 20th- and 21st-century philosophy. These may include: Analytic, Pragmatism, and Continental. May be repeated for credit. (4)

***PHIL 333: Early Modern Philosophy - PH***

The development of European and British philosophy from the 17th through the early 19th centuries. Figures may include Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. (4)

***PHIL 334: Kant and the Nineteenth Century - PH***

An examination of Kant’s critical project and the philosophical responses that followed. Special attention given to Fichte, Hegel, Schelling, Marx, Kierkegaard, and Nietzsche. (4)

***PHIL 335: The Analytic Tradition - PH***

The development of Anglo-American philosophy from the late 19th century to the mid-20th century. Figures include Moore, Russell, Ayer, and Wittgenstein. **Prerequisite:** One philosophy course. (4)

***PHIL 336: Pragmatism and American Philosophy - PH***

An examination of such figures as Peirce, James, and Dewey, as well as extensions and critiques of pragmatism

(such as Alain Locke, Jane Addams, Josiah Royce, Alfred N. Whitehead). Links with current feminist and continental thought will be explored. (4)

***PHIL 338: Continental Philosophy - PH***

Focus on recent issues in contemporary Continental philosophy such as hermeneutics, phenomenology and existentialism, and critical social theory. (4)

***PHIL 350: God, Faith, and Reason – PH***

Classical and contemporary views of traditional issues regarding the nature and rationality of religious belief, with a focus on monotheistic religions and a unit on religious pluralism. **Prerequisite:** One course in philosophy or religion. (4)

***PHIL 353: Topics in Philosophy – PH***

Study of selected topics in philosophy, such as value theory, science, metaphysics, epistemology, feminism, film or health care. May be repeated for credit. (2-4)

***PHIL 493: Honors Research Project***

The writing of an honors thesis and final completion of the reading program in primary sources required for the honors major. Presentation of thesis to department majors and faculty. (4)

***PHIL 499: Capstone: Advanced Seminar in Philosophy – SR***

Exploration in a seminar format of an important philosophical issue, thinker, or movement. Topic to be announced at the time course is offered. **Prerequisite:** Three philosophy courses or consent of instructor. May be repeated once for credit. (4)



**Physics (PHYS)**

<b>Fall</b>	PHYS 110, 125, 135, 153, 154, 163, 164, 240, 331, 333, 356, 499A
<b>Spring</b>	PHYS 126, 136, 153, 154, 163, 164, 210, 223, 321, 332, 334, 336, 354, 499B
<b>Summer</b>	PHYS 110, 125, 126, 135, 136
<b>Alternate Years</b>	PHYS 321, 332, 334, 336, 401, 406

*A grade of C- or better is required in all prerequisite courses.*

***PHYS 110: Astronomy – NS, SM***

Stars and their evolution, galaxies and larger structures, cosmology, and the solar system. Emphasis on observational evidence. Evening observing sessions. **Prerequisites:** MATH 115 or Math placement score of 115 or above. (4)

***PHYS 125: College Physics I – NS, SM***

An introduction to the fundamental topics of physics. It is a non-calculus sequence, involving only the use of trigonometry and college algebra. Concurrent registration in (or previous completion of) PHYS 135 is required. **Prerequisites:** MATH 128 or 140 (or equivalent by placement exam) with a C- or higher. (4)

***PHYS 126: College Physics II – NS, SM***

An introduction to fundamental topics of physics. It is a non-calculus sequence, involving only the use of trigonometry and college algebra. Concurrent registration in (or previous completion of) PHYS 136 is required. **Prerequisite:** PHYS 125 with a C- or higher.

***PHYS 135: College Physics I Laboratory***

Basic laboratory experiments are performed in conjunction with the College Physics sequence. Concurrent registration in PHYS 125 is required. (1)

***PHYS 136: College Physics II Laboratory***

Basic laboratory experiments are performed in conjunction with the College Physics sequence. Concurrent registration in PHYS 126 is required. (1)

***PHYS 153: General Physics I – NS, SM***

A calculus-level survey of the general fields of physics, including classical mechanics, wave motion, and thermodynamics. Concurrent registration in (or previous completion of) PHYS 163 is required. Concurrent registration in (or previous completion of) MATH 152 is strongly recommended. **Prerequisite:** MATH 151 with a C- or higher. (4)

***PHYS 154: General Physics II – NS, SM***

A calculus-level survey of the general fields of physics, including electricity and magnetism, and optics. Concurrent registration in (or previous completion of) PHYS 164 is required. **Prerequisites:** MATH 152, PHYS 153 with a C- or higher. (4)