

HT 4132

Principles of Plant Protection

This course is designed to develop a basic understanding of methods of control of insect pests, plant diseases, and weeds. Emphasis is placed on the identification of common pest insects, plant diseases and weeds and the selection of appropriate control agents. Safe handling and disposal of pesticides are important components of the course. The course is also designed to prepare students for pesticide applicator certification. Not open to Horticulture majors. 2 hours Lecture and 2 hours Laboratory — 3 credits

HT 4202

Advanced Pomology

This course presents an advanced study of the pre-harvest and post-harvest physiology, breeding and nutrition of deciduous fruit plants. Illustrated lectures are based on the latest research findings supplemented by laboratory periods in which research projects and advanced field techniques are studied and undertaken. Prerequisite: Commercial Fruit Production. Offered in Spring Semester of even numbered years. 2 hours Lecture and 3 hours Laboratory — 3 credits

HT 4204

Plant Pest Management

This course is concerned with the recognition and methods of control of insects, fungi and weeds which adversely affect agriculture and the health and welfare of man. Prerequisites: Entomology and Principles of Organic Chemistry. 2 hours Lecture and 3 hours Laboratory — 3 credits

HT 4225

Plant Disease Diagnosis

This course provides the student with intensive laboratory experience in the identification of plant pathogens, plant disease diagnosis, and plant disease control as well as a focus on the physiology of the host-parasite interaction, plant disease resistance, and disease appraisal. Prerequisite: Plant Pathology. 2 hours Lecture and 3 hours Laboratory — 3 credits

Specialized Methods and Techniques

Each major department offers a series of courses designed to acquaint the student with various applications of the professional specialty.

HT 3128

Horticulture Techniques I

Scientific investigations and techniques relative to horticultural crop production and management are thor-

oughly reviewed and tested, using the extensive laboratory, greenhouse and field facilities available. Particular emphasis is placed on techniques used in plant acquisition, selection, and field and orchard layout, and in the management, harvesting, and storage of horticultural crops. Required for Horticulture juniors. 1 hour Lecture and 3 hours Laboratory — 2 credits

HT 3229

Horticulture Techniques II

This course introduces advanced horticultural techniques through the study and use of modern equipment and instruments. Qualitative and quantitative determinations as well as statistical analyses are made by the student on a generally independent basis. Development of food products is studied in conjunction with field trips to industry plants. Required for Horticulture juniors. Prerequisite: Introduction to Computers. 1 hour Lecture and 3 hours Laboratory — 2 credits

Employment Program

HT 2370

Employment Program

Each student in Horticulture is required to spend 500 hours in approved jobs related to the student's major. Registration for each Employment Program must occur prior to the beginning of a relevant experience. Registration materials are available from the Office of Career and Life Education, located in Segal Hall. — 4 credits

LIBERAL ARTS (LA)

LA 0040

A-Day Leadership Laboratory

The student leaders who manage the College's annual A-Day exposition may earn credit for their management role; 1/2 credit per semester of leadership participation; may be accumulated to a maximum of 4 semester credits. Pass/Fail

LA 1015

Music Appreciation

The music of each period of history is interpreted and analyzed with a view of understanding and appreciating our musical heritage. Illustrations for the works of the great composers are presented to assist in the establishment of criteria for evaluating music. 3 hours Lecture and Discussion — 3 credits

Course Descriptions

LA 1020

Skills for College Success

The goal of this course is to improve your learning abilities and to sharpen your ability to think — to think clearly, to think logically, to think critically, and to think effectively. Effective learners and thinkers are able to reach their goals, solve problems, and make informed choices in every area of their experience. This course is also your introduction to the ideals and values of the academic community, and you will learn about the key abilities and dispositions of a liberally educated person. 1 hour Discussion — 1 credit.

LA 1058

Community Concert Band

This course provides students the opportunity to develop their musical skills through the study and performance of selected works for concert band. Performances are held on campus throughout the school year. 2 rehearsals per week — 1 credit per semester

LA 1059

Chorale

This course provides students the opportunity to develop their musical skills through the study and singing of selected choral literature from various periods of music history. Performances are held on campus throughout the school year. 2 rehearsals per week — 1 credit per semester. 3 hours Lecture and Discussion — 3 credits

LA 1060

Introduction to the Fine Arts

This course studies the music of each period of history. Illustrations from the works of the great composers are presented to assist in the establishment of criteria for evaluating the music. One field trip is taken to The Philadelphia Academy of Music for the purpose of studying the orchestra in a rehearsal setting. This course also examines painting, sculpture, and architecture in history to increase the student's ability to interpret and appreciate works of art.

LA 1112

Spanish I

A study of basic grammar and vocabulary with oral and written exercises that include conversation and composition. 3 hours Lecture and Discussion — 3 credits

LA 1113

French I

Students develop a skill for recognizing cognate words using idiomatic expressions and acquire a basic vocabulary enabling them to read aloud with understanding, to pronounce accurately, to recognize and use appropriate grammatical structure, and to write and translate sentences for composition. 3 hours Lecture and Discussion — 3 credits

LA 1160

German I

Instruction and practice in understanding and speaking the German language with stress on sentence structure, inflections, vocabulary, and pronunciation. 3 hours Lecture and Discussion — 3 credits

LA 1212

Spanish II

A continuation of the study of basic grammar and vocabulary with emphasis on spoken and written Spanish, including the reading of carefully graded Spanish texts. Prerequisite: Spanish I. 3 hours Lecture and Discussion — 3 credits

LA 1214

French II

Students will refine skills of vocabulary-building, speaking, reading, and translating. Prerequisite: French I or equivalent. 3 hours Lecture and Discussion — 3 credits

LA 1223

Campus Leadership Training

This course is designed to provide a framework for developing leadership skills. Emphasis includes active communication, team building, intervention strategies, decision making, and problem resolution. Students wishing to apply for campus leadership positions including Peer Advisors, Resident Assistants, Diplomats and Student Government leaders are encouraged to take this course. The course is open to second semester freshmen, as well as sophomores and juniors. 1 hour per week — 1 credit, Pass/Fail

LA 1225

Critical Thinking

The goal of this course is to sharpen ability to think clearly, logically, critically, and effectively. Thinking effectively is also necessary to communicate effectively, solve problems and to make the best choices. This course is designed to increase and focus your thinking abilities by using a variety of methods - lec-

tures, class discussions, readings, written assignments, problem-solving activities, and examinations. Your success in the course depends on your willingness to commit to developing the thinking potentials that you possess. 1 hour Lecture — 1 credit

LA 1261

German II

Instruction and practice in understanding and speaking the German language with increasing emphasis on reading and writing the language. Prerequisite: German I or Equivalent. 3 hours Lecture and Discussion per week — 3 credits

LA 2005

Speech

Experience is stressed in preparation, delivery, and criticism of speeches on a variety of topics. Speeches include personal experiences, manuscript readings, demonstration, informative, and persuasive with a goal of attaining extemporaneous skill in delivery. 3 hours Lecture and Discussion — 3 credits

LA 2012

Introduction to Sociology

This course covers the nature and functioning of human culture, with special attention to the problems of modern Western society. The course centers upon the interaction of individual persons and the social groups in which they have membership. 3 hours Lecture and Discussion — 3 credits

LA 2036

Introduction to Psychology

A study of the general subject matter in the field, including child psychology, heredity and environment, individual differences, the nervous system, personal adjustment, human development, intelligence, mental processes, and abnormal behavior. 3 hours Lecture and Discussion — 3 credits

LA 2040

Modern History of Western Societies

This course provides a comparative history of modern Western civilization, beginning with the era of scientific, political and industrial revolutions, since the 16th century. Through the discussion and analysis, the student should gain a deeper understanding of their modern western world and how it came to evolve. 3 hours Lecture and Discussion — 3 credits

LA 2042

Introduction to Philosophy

This course is a historical approach to Western philosophy. Major figures from the Greeks to contemporary philosophers are treated. 3 hours Lecture and Discussion — 3 credits

LA 2138

History of Western Civilization I

A survey of the developments of western societies and ideologies from the origins of civilization in the ancient Near East to the mid-seventeenth century. 3 hours Lecture and Discussion — 3 credits

LA 2224

Pennsylvania History and Government

Surveys political, social and cultural developments in the Commonwealth from Penn's Charter until the present day, with special consideration of the role of Bucks County. Students will be required to participate in fieldwork at Delaware Valley College's Roth Farm and Living Museum. 3 hours Lecture and Discussion — 3 credits

LA 2230/ED 2230

Educational Psychology

A practical treatment of the theory and practice of teaching and learning and their application in the classroom, family, and community. Topics include: conditioning, cognitive processes, motivation, testing and grading. ED 2230 open to Education majors only. Any student may take the course with an LA prefix. 3 hours Lecture and Discussion — 3 credits

LA 3008

Student Government

Students receive 1/2 credit on a pass/fail basis for devoting active participation in the activities of student government. They include, but are not limited to, maintaining an office for a class year or on Student Government itself, serving on committees like SAC, being an officer in a club and representing that club at Student Government. A short paper is required each semester for students on the Student Government Board who desire credit. To receive credit, students must sign up for it at the Registrar's Office. 1/2 credit, Pass/Fail

LA 3022

Acting I

This course provides students with a safe and respectful atmosphere in which to explore the actor's craft. The student not only learns how to act but how

Course Descriptions

to use acting in common situations. 3 hours Lecture and Laboratory — 3 credits

LA 3024 **Acting II**

This course prepares the student for specific roles. The actors will be matched to parts for which they seem most suitable and will learn how to break down a role emotionally and physically. By the end of the course they will be prepared to begin rehearsals for a production. Prerequisite: Acting I or equivalent experience. 3 hours Lecture and Laboratory — 3 credits

LA 3025 **Acting III**

This course leads the actor through the production process. There is a step by step plan in which the actor is moved from rehearsal through performance in some of America's great plays. The plays will be chosen to suit the student's abilities. Prerequisite: Acting II. 3 hours Lecture and Laboratory — 3 credits

LA 3031 **American History and Government to 1877**

A survey of political, social, and cultural developments from colonial times through the period of Reconstruction. 3 hours Lecture — 3 credits

LA 3032 **American History and Government Since 1877**

A survey of political, social, and cultural developments from 1877 to the present. 3 hours Lecture — 3 credits

LA 3034 **Adolescent Psychology**

This course studies the development and behavior of adolescents with a focus on understanding the adolescent in terms of family, peers, school, culture and the community at large. Identity development, delinquency and sexuality will all be examined with an emphasis on how to provide services to the adolescent in need. Prerequisite: Introduction to Psychology or Permission of Instructor. 3 hours Lecture and Discussion — 3 credits

LA 3101 **Cultural Anthropology**

This course examines the origins of human culture, with emphasis upon cultural and social organization, the impact and influence of cultural change upon such organization, and the traditions, rituals and relationships that define human civilization. 3 hours Lecture — 3 credits

LA 3132 **Comparative Politics**

This course offers a comparative analysis of European, African, Asian, Middle Eastern, and Latin American political systems. 3 hours Lecture — 3 credits

LA 3139 **Introduction to Research**

This course is designed to introduce students to the requirements, philosophy, and methods of scientific research. Topics will include experimental design, scientific methods, grants and funding, communications, searching methodology, ethics, selecting a graduate program, dissection and analysis of research papers, research style, and the administration of research projects. 3 hrs per week — 3 credits

LA 3151, 3251 **Studio Art I, II**

Studio Art I is an elementary course in which the student is given the opportunity to find her/himself and the medium through which she/he wants to work. Studio Art II requires the student to express the self through the medium suggested by the instructor. Each course is a prerequisite for the following one. 2 hours Lecture and Practicum — 2 credits for each course

LA 3240 **Political and Cultural Geography**

The significance of contemporary world patterns of nations is considered through the interaction of their physical, economic, political, and cultural aspects, with an emphasis upon the interplay between population, migration patterns, language, religion, and political developments. 3 hours Lecture — 3 credits

LA 3241 **Invention and Technology in America**

Examines the influence of agricultural, mechanical, technological, and scientific change upon the United States from colonial times to the present. Students will be required to participate in fieldwork at Delaware Valley College's Roth Farm and Living Museum. 3 hours Lecture — 3 credits

LA 4014 **Abnormal Psychology**

This study of abnormal psychology in American society, including its occurrence, condition, and treatment, emphasizes the maintenance of good mental health. Topics include mood disorders, substance abuse, brain disorders and dream analysis. Prerequisite: Introduction to Psychology. 3 hours Lecture — 3 credits

LA 4037

Non-Western Societies

Non-Western Societies surveys the non-Western cultures and histories of Asia, Africa, and the Middle East, and their nineteenth and twentieth century interactions with the outside world. This course will explore pre-modern origins and enduring traditions of each region, address various independence movements of the twentieth century, and discuss examples of contact with the West, conflicts arising over US-Soviet Cold War competition, terrorism, and the recent challenges to the emerging global economy. 3 hours Lecture and Discussion — 3 credits

LA 4038

Cultural Enrichment

Students are required to attend or participate in 14 cultural events, including concerts and recitals, lectures presented by distinguished authors, visits to museums, art galleries and shows, and theater presentations from among which the student must select a variety — 1 credit

LA 4110

Critical Issues in World History

Examines global problems in historical perspective across time — war, terrorism, and the threat of war; cultural, racial, ideological, religious, gender, and economic struggles; and the search for peace and order. 3 hours Lecture — 3 credits

LA 4111

International Political Economy

This course analyzes the development, processes, and institutions of the global political economy, with an emphasis upon the politics and diplomacy of international trade and finance. 3 hours Lecture — 3 credits

LA 4112

Senior Seminar

Under faculty direction, students explore topics in any of the following fields: American History, European History, World History, or the History of Science/Agriculture/Technology. This tutorial approach culminates in the preparation of a paper of considerable length with an oral defense/presentation. 3 hours Lecture — 3 credits.

LA 4127

United States Foreign Policy

The history of American foreign relations concerns power, profit, security, politics, and ideology. This offering of US diplomatic history, covering selected

topics from 1775 to the present, will explore competing interpretations of America's hot and cold wars, periods of peace, isolation, and intervention. 3 hours Lecture and Discussion — 3 credits

LA 4203

Social Psychology and Human Interaction

The scientific studies of how people interact, communicate, influence, interpret and relates to one another. The courses focuses on the way an individual relates to groups as well as on how various groups affect the individual. Topics include prejudice, group-think, attitude inoculation, polarization, eyewitness testimony, altruism, aggression, bargaining, mediation, arbitration, and conciliation. 3 hours Lecture and Discussion — 3 credits

LA 4224

Cultural Minorities

The social institutions of selected racial, ethnic and religious minorities, as well as the institutional, demographic and social/psychological aspects of inter-group relations, are reviewed. Prerequisite: Introduction to Sociology. 3 hours Lecture and Discussion — 3 credits

LA 4228

The American Family

This course traces a history and background of American family patterns that includes the structure, functions, and values of the contemporary family. It also deals with the factors that may result in the disorganization of the family. 3 hours Lecture and Discussion — 3 credits

LA 4243

Ethics

An introduction to classical and modern logic; major concerns and approaches to ethics are considered, with emphasis on modern ethical problems. 3 hours Lecture and Discussion — 3 credits

MATHEMATICS AND PHYSICS (MP)

MP 0009

Algebra II (High School)

This course is designed to prepare those students who do not have the requisite high school algebra background for the courses in college algebra which are required for a college degree. 3 hours Lecture and Discussion — 0 credits