ENGL 407 MAJOR AUTHOR(S): PERIOD B (3) Prerequisite: ENGL 220. Content varies. The focus is typically on one or two major writers of the given time period. Classes are conducted as seminars.

ENGL 408 MAJOR AUTHOR(S): PERIOD C (3) Prerequisite: ENGL 220. Content varies. The focus is typically on one or two major writers of the given time period. Classes are conducted as seminars.

ENGL 414 CHILDREN’S LITERATURE (3) Prerequisites: ENGL 111-112. This advanced course is designed for classroom teachers and librarians or administrators wishing to extend their knowledge of literature available for children and to understand the criteria for evaluating books. Emphasis is on integrating trade books with all aspects of the curriculum in the modern school. Note: This course does not count for credit for the English Major.

ENGL 417 CHAUCER (3) [A] Prerequisite: ENGL 220. This course introduces students to the range of works by the poet Geoffrey Chaucer (c. 1343-1400), as well as the cultural context in which he lived. The course explores the poet’s longer narrative works, including the Canterbury Tales, and a sampling of his prose and short lyrics with emphasis on the impact of Chaucer’s writings on modern audiences. All texts are available in translation.

ENGL 420 SENIOR SEMINAR IN ENGLISH (3) [Theory] Prerequisite: ENGL 220. Focusing on literary texts, the course gives seniors a chance to use knowledge of literary history, form, and technique, as well as expertise in writing and interpretation, to read, analyze, discuss, and write about literature.

ENGL 421-422 SHAKESPEARE I, II (3, 3) [A] Prerequisites: ENGL 201 or 202 and ENGL 220. English 421 provides an in-depth study of the best known tragedies and most important English history plays by Shakespeare. Some attention is given to major critical approaches and background material. English 422 focuses on the romantic comedies, the problem plays, and the romances. References are made to plays studied in 421, but 421 is not a prerequisite.

ENGL 445 ADVANCED CREATIVE WRITING: FICTION (3) Prerequisite: ENGL 350. Students advance their abilities to write and revise fiction by studying model texts, editing each other’s writing, and completing a portfolio of polished fiction. Students will refine their abilities in fictional techniques and choices, and topics may include a variety of fictional forms.

ENGL 446 ADVANCED CREATIVE WRITING: NON-FICTION (3) Prerequisite: ENGL 346. This course focuses on writing and revising a portfolio or series of nonfiction works, with workshop discussion advancing concepts and practices of revision. In addition to writing, workshop discussion, and revision, course content will include outside reading that demonstrates a breadth of formal and aesthetic styles. The student will demonstrate competence in writing literary nonfiction in a range of forms that may include both traditional and innovative structures.

ENGL 447 ADVANCED CREATIVE WRITING: POETRY (3) Prerequisite: ENGL 349. Students advance their abilities to write and revise poetry by studying model poems and texts about poetry, editing each other’s writing, and completing a portfolio of polished work. Students refine their abilities in poetic technique and choices, and topics may include a variety of poetic forms, lyrical prose, translation, and creating a body of work such as a linked sequence or chapbook.

ENVIRONMENTAL SCIENCE COURSES (ENVS)

ENVS 101-102 EARTH AND ENVIRONMENTAL SCIENCE I, II (3, 3) Corequisite: ENVS 101L-102L. Three hours lecture. This course sequence offers an interdisciplinary introduction to the scientific study of the earth’s physical and biological systems with an emphasis on environmental changes and their implications.


ENVS 201 HISTORY OF EARTH AND LIFE (4) Prerequisites: ENVS 101/101L-102/102L. This course provides an overview of the Earth’s composition, structure, and the geologic processes that continually shape the planet. Special attention will be given to rocks, minerals, plate tectonics, and the history of
the geology. The biological evolution of life on Earth will be studied by examination of fossils and the fossil record.

ENVS 211  PHYSICAL GEOGRAPHY (3) Three hours lecture. This course provides a broad natural science background for students. The interrelationship of the lithosphere-hydrosphere-atmosphere, climate-soil-vegetation, and landforms of the world bring into perspective observable natural phenomena.

ENVS 238  INTRODUCTION TO RESEARCH (1-3) Prerequisite: Consent of supervising instructor. This course provides the beginning student the opportunity to conduct lab, field, or library research under the supervision of a faculty member. Credit is dependent upon the scope of the work.

ENVS 321  CONSERVATION ECOLOGY (4) Prerequisites: BIOL 113-114 or ENVS 101/101L-102/102L. Three hours lecture and three hours laboratory. This course addresses biological diversity at the genetic, population, and species levels. In particular, human impacts on diversity are investigated, and practical approaches to understanding and preventing extinction are explored. In addition, the mechanisms underlying large-scale ecological processes and their changes across space and time are examined, with the relationships among landscape structure, resource distributions, and populations also studied.

ENVS 324  SUSTAINABLE FOREST MANAGEMENT (4) Prerequisites: satisfactory completion of the following: BIOL 113 or ENVS 101/101L and 102/102. This course teaches the principles and techniques of forest management from both economic and environmental standpoints. Students will be trained in silviculture, dendrology, and timber cruising and harvesting during lectures, labs, and field trips. Topics related to timber harvesting such as watershed management, wildlife conservation, rangeland management, global climate change, and outdoor recreation will also be explored. The importance of managing forests so that they do not become depleted will be the overriding theme of the course.

ENVS 331  PRINCIPLES OF HYDROLOGY (4) Prerequisites: CHEM 111, MATH 103. Three hours lecture and three hours laboratory. This course is a study of the principles and theory of surface water and groundwater flow, chemistry, and quality; understanding and determination of water budget, hydrologic cycle, and Darcy’s law; social, political, and economic issues related to hydro-logical systems.

ENVS 333  PHYSICAL OCEANOGRAPHY (4) Prerequisites: BIOL 113-114 or ENVS 101/101L-102/102L. Three hours lecture and three hours laboratory. This course focuses on ways in which oceans function and interact with earth systems. Consideration is given to ocean currents and vertical mixing, water chemistry, heat and energy transfer, sea floor geology, and coastal processes.

ENVS 336  PHYSICAL GEOLOGY (4) Prerequisites: BIOL 113-114 or ENVS 101/101L-102/102L, or permission of instructor. Three hours lecture and three hours laboratory. This course is a study of the earth’s structure, composition, surface features and processes, rocks, minerals, mountain building, volcanoes, earthquakes, and the weathering and erosional effects of wind, water, and ice.

ENVS 337  HISTORICAL GEOLOGY (4) Prerequisites: BIOL 113-114 or ENVS 101/101L-102/102L. Three hours lecture and three hours laboratory. This course looks through the earth’s past through the record hidden in the rocks and the fossils contained within and includes a study of the development of life on earth as well as the climate and geologic changes of the earth’s surface from the Precambrian until the present.

ENVS 338  ENVIRONMENTAL GEOLOGY (4) Three hours lecture and three hours laboratory. This course is a systematic study of processes that operate at or near earth’s surface and influence the development, preservation, and destruction of natural environments. Topics covered include the influence of fluvial, atmospheric, mass-wasting, glacial, volcanic and tectonic systems on the environment. Mitigation strategies to prevent environmental degradation will be discussed.

ENVS 340  REMOTE SENSING (2) Prerequisites: BIOL 113-114 or ENVS 101/101L-102/102L. Three hours lecture and three hours laboratory. One-half semester modular course paired with another related half-semester modular course. Fundamental principles of remote sensing from satellites and other sources for environmental science are examined in this course.

ENVS 345  METEOROLOGY (3) Prerequisites: ENVS 101/101L-102/102L. This class investigates the structure, components and processes of the earth’s atmosphere. Global circulation patterns, pre-
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cipitation, tropical systems, severe weather events, and air pollution issues are all studied. Understanding how to analyze and produce weather forecasts will be emphasized.

ENVS 347 **CLIMATOLOGY (3)** Prerequisites: ENVS 101/101L-102/102L. This course explores how the atmosphere, oceans, and land masses all interact to influence earth’s climate. Various local climates on our planet will be studied along with influencing factors such as latitude, topography, land-water interactions, and air and ocean circulation. A special emphasis will be placed on understanding both short- and long-term natural climate changes, and how humans might influence such variability.

ENVS 365 **WETLANDS (4)** Prerequisites: ENVS 101/101L-102/102L. This course provides an overview of the general ecology, hydrology, vegetation types, wildlife habitats, biogeochemistry, and conservation issues of wetlands. Special attention will be given to the legal and mitigation issues surrounding wetland conservation and preservation.

ENVS 375 **FRESHWATER ECOLOGY (4)** Prerequisites: BIOL 113-114 or ENVS 101/101L-102/102L. Three hours lecture and three hours laboratory. This course focuses on the physical, chemical, and biological properties of the freshwater environment. A special emphasis will be placed on studying anthropogenic impacts on aquatic habitats and their organisms.

ENVS 377 **STUDY ABROAD (3)** This course provides students with the opportunity to study principles of environmental science in foreign settings.

ENVS 380 **GEOGRAPHIC INFORMATION SYSTEMS (GIS) (4)** Prerequisite: Junior/senior standing. Three hours lecture and three hours laboratory. This course introduces students to the theory and practice of Geographic Information Systems (GIS) and prepares them for its use across numerous fields of study. Geographic Information Systems (GIS) is specially designed hardware and software for the analysis and display of spatially explicit data. With intelligent digital maps, such systems allow users to store, query, and retrieve information based on desired parameters.

ENVS 397 **INDEPENDENT STUDY IN ENVIRONMENTAL SCIENCE (1-3)** Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing. This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

ENVS 398 **SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE (1-4)** [credit depends on topic] Prerequisite: A background of work in the discipline. This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

ENVS 399 **INTERNSHIP IN ENVIRONMENTAL SCIENCE (1-12)** Prerequisites: Juniors or seniors with a 2.25 minimum GPA; approval of written proposal by internship coordinator and supervising faculty prior to registration. This internship is offered to qualified students allowing them to gain personal and practical experience in various areas of environmental science. Internships include but are not limited to working in environmental laboratories, natural resources conservation, restoration of natural areas, and help with research projects conducted by senior scientists and engineers.

ENVS 428 **INDIVIDUAL RESEARCH IN ENVIRONMENTAL SCIENCE (1-6)** Prerequisites: Junior or senior standing; consent of supervising instructor. This independent opportunity to conduct a field, laboratory, or literary study project culminates in a formal paper and/or presentation as directed by the supervising instructor. Credit is dependent on the nature of the work but may not exceed three credit hours per semester.

ENVS 490 **ENVIRONMENTAL SCIENCE SEMINAR (1)** Prerequisite: Senior Standing. This seminar is intended as a capstone course and provides an opportunity for students to study a range of biological questions presented by outside speakers. Additionally, students’ communication skills are assessed through oral presentations on internships or individual research projects, as well as other topics.