

2015-2016 Environmental Science Course Descriptions

ENV 190N Introduction to Environmental Science. This introductory-level course focuses on the scientific principles that underlie the functioning of the global environment. The course addresses problems related to human society and explores possibilities for alleviating these problems. The course will provide the student with knowledge of how the environment functions and understanding of the issues of scale, complexity and conflict resolution. The lab will include field trips, extended case studies and practice making environmental measurements. Three class hours and one three-hour lab per week. 4 Semester Hours.

ENV 199 Special Topics in Environmental Science. See All-University 199 course description.

ENV 210 Hydrology and Water Resources. A study of water properties, occurrence, distribution, and movement and their relationship with the environment within each phase of the hydrological cycle. The course also examines water quantity and quality issues, and water management policies. Prerequisite: BIO 141 or ENV 190 or GEO 112 or GEO 116 or consent of the instructor. Three class hours and one three-hour laboratory per week. Cross-listed as GEO210. 4 Semester Hours.

ENV 280 Geographical Information Systems. This course introduces the practice of GIS. It is a very hands-on course and will require extensive practice using ArcGIS to illustrate both the principles and the skills involved in geographical information systems. The class will culminate with the completion of a major project. Prerequisite: Sophomore standing or consent of instructor. 4 Semester Hours. (typically offered in alternate years, fall semester)

ENV 299 Special Topics in Environmental Science. See All-University 299 course description.

ENV 350 Case Studies in Environmental Science. This course provides exposure to modern environmental issues on a local, regional and global scale. Using case studies, students will investigate both enacted and proposed solutions to environmental problems and will be required to integrate the disciplines of biology, geology, chemistry, economics, philosophy and political science, seeking to evaluate and improve these solutions. The course will also discuss complexity, scale and conflict resolution. Prerequisite: Sophomore standing. 4 Semester Hours. (typically offered spring semester)

ENV 494 Honors Thesis/Project. See All-University course description.

ENV 499 Internships in Environmental Science. See All-University course description.