

# ENVIRONMENTAL SCIENCES (ENVI)

## ENVI 100 Environmental Science

(3 Credits, Fall/Spring/Summer)

This course is designed for non-science majors. It will consider scientific principles and their influence on environmental problems in today's society. The role of humans and our impact on these issues will be emphasized. Past, present, and future trends will be evaluated along with the possible impacts of these trends on the local and global populace. PRE/COREQ: ENVI 100L. *(This CWI course meets Idaho State Board of Education GEM competency requirements for GEM 4 - Scientific Ways of Knowing OR the CWI Global Perspectives requirement. [It will not fulfill both requirements.] It has been E designated and will fulfill the Ethical Reasoning requirement, regardless of which other competency it meets.). (3 lecture hours, 0 lab hours, 3 credits)*

## ENVI 100L Environmental Science Lab

(1 Credit, Fall/Spring/Summer)

This course fulfills the laboratory component of the GEM 4 Scientific Ways of Knowing requirement. Students will engage with the process of science by making observations, developing questions, designing experiments, using scientific apparatus to collect and analyze data, and communicating the results of scientific work. Students enrolled in this course will be required to participate in multiple off-site field trips. Additional fee required for lab. PRE/COREQ: ENVI 100. *(This CWI course meets Idaho State Board of Education GEM competency requirements for GEM 4 - Scientific Ways of Knowing.). (0 lecture hours, 3 lab hours, 1 credits)*

## ENVI 260 General Ecology

(3 Credits, Fall)

Ecology is designed for biology majors and addresses interactions among organisms as well as the abiotic environment. This course will provide a survey of how physical and biological factors determine the abundance and distribution of plants and animals. Course material will focus on concepts including ecophysiology, population dynamics, community structure and organismal interactions, ecosystem processes, and biogeography. Additional focus is placed upon applications of concepts to current issues. This course seeks to provide competencies and conceptual knowledge necessary for careers in biological and ecological fields. Additional fee required for lab. Prior completion of MATH 153 and concurrent enrollment in ENVI 260L are strongly recommended. PREREQ: BIOL 112 and BIOL 112L with a grade of C or higher. *(3 lecture hours, 0 lab hours, 3 credits)*

## ENVI 260L General Ecology Lab

(1 Credit, Fall)

In this course, students will engage in the process of science through hands-on field and laboratory exercises that seek to address questions regarding organismal populations, communities, and ecosystems. Students will solidify skills in making observations, developing questions, designing experiments, using scientific apparatuses and field equipment, collecting and analyzing data, and communicating the results of scientific work. This course seeks to provide competencies and conceptual knowledge necessary for careers in biological and ecological fields. Additional fee required for lab. Prior completion of MATH 153 and concurrent enrollment in ENVI 260 are strongly recommended. PREREQ: BIOL 112 and BIOL 112L with a grade of C or higher. *(0 lecture hours, 3 lab hours, 1 credits)*

## ENVI 280L Field Biology

(3 Credits, Spring)

This course serves as the capstone course for the AS degree in Biology - Natural Resources and will provide students with hands-on, application-based experiences that will prepare them for advanced studies, biological fieldwork, and/or introductory jobs in field biology, fisheries, or wildlife management. Students will engage in the process of science through hands-on field and laboratory exercises that seek to build the knowledge, skills, and abilities required to conduct field studies on a variety of organisms including but not limited to avian, mammal, invertebrate, fish, and plant communities. Students will develop skills in both field study and field survey design, fieldwork planning and implementation, collecting and analyzing data, using scientific apparatuses and field equipment, mapping using GIS, and communicating the results of scientific work. The class will be structured predominately around fieldwork in southwest Idaho and may include one to three weekend obligations for extended projects or to accommodate distant field sites. PREREQ: ENVI 260 and ENVI 260L with a grade of C or higher. *(0 lecture hours, 6 lab hours, 3 credits)*

*Refer to How to Read Course Descriptions for an explanation of elements found in the course descriptions above.*