

# ENVIRONMENTAL SCIENCE (AS)

The student will describe and show competency in the following issues associated with environmental science:

1. The proper use of environmental sampling equipment and current technology in the classroom and in the field according to accepted "Standard Methods";
2. The ability to conduct field sampling and monitoring of air, water, soil, and biomass using appropriate sampling equipment according to accepted "Standard Methods";
3. The ability to conduct an environmental site assessment;
4. The ability to describe, orally and in writing, the similarities and differences between traditional and modern views of the Earth;
5. The ability to demonstrate an understanding of methodology in science research;
6. The ability to describe biological, chemical, and physical influences on environmental media;
7. The ability to describe transport mechanisms for contaminants as they travel through various environmental media; and
8. The demonstration of general knowledge of environmental issues and develops an understanding of environmental impacts resulting from human activities.

This program is designed to prepare students for employment or transfer to the Bachelors of Science in Environmental Science or other institutions of higher learning in such areas as wildlife management, environmental quality, and range and grassland management.

| Code   | Title   | Hours |
|--|---|-------|
| <b>General Education Requirements</b>  |   |       |
| ENGL 110   | Composition I   | 3     |
| ENGL 120   | Composition II  | 3     |
| COMM 110   | Fundamentals of Public Speaking   | 3     |
| MATH 102   | Intermediate Algebra  | 4     |
| PSYC 100   | First Year Learning Experience  | 3     |
| SOC 120  | Transitions-Graduation & Beyond   | 2     |
| NAS 101<br>or NAS 103  | Ochethi Sakowin Language for Beginners<br>Introduction to Ochethi Sakowin Language, Culture & History | 3     |
| CSCI 101   | Introduction to Computers   | 3     |
| BIOL 150   | General Biology I   | 4     |
| <i>Humanities or Social &amp; Behavioral Science</i>   |   |       |
| Select one course from:  |   | 3     |
| Arts, English, History, Humanities, Music, Native American Studies, Philosophy, Anthropology, Criminal Justice, Economics, Geography, Human Services, Political Science, Psychology, and Sociology |   |       |
| <i>Health/Physical Education</i>   |   |       |
| Select two one-hour courses or any one two-hour course   |   | 2     |
| <b>Core Requirements</b>   |   |       |
| BIOL 224   | General Ecology   | 4     |
| CHEM 115<br>or CHEM 121  | Introduction to Chemistry<br>General Chemistry I  | 4     |
| ENS 113  | Introduction to Environmental Science   | 4     |

|                           |                                   |              |
|---------------------------|-----------------------------------|--------------|
| ENS 202                   | Environmental Issues              | 2            |
| ENS 225                   | Environmental Sampling            | 4            |
| ENS 240                   | Environmental Statistics          | 3            |
| ENS 260                   | Environmental Research Project I  | 2            |
| ENS 261                   | Environmental Research Project II | 2            |
| ENS 297                   | Environmental Science Internship  | 3            |
| ENS 299                   |                                   | 1            |
| STEM Electives 100+ Level |                                   | 3-4          |
| <b>Total Hours</b>        |                                   | <b>65-66</b> |