

# Science

## OBJECTIVES

General Science course offerings provide opportunities for students to explore a variety of interdisciplinary topics in the sciences.

## GENERAL SCIENCE COURSE DESCRIPTIONS

### SCI 101 - Scientific Methods\*SMI Credits: 4.00

#### Gen Ed Core-Natural, Math & Info Sciences

The course is designed to provide students with a broad background in the physical sciences with emphasis on the scientific method. The curriculum stresses both theoretical principles and applications of concepts using experimentation as a vehicle for modeling scientific process. This course is especially suited for those students preparing for elementary school science teaching. Prerequisite: MATH 070.

### SCI 101L- Scientific Method Lab Credits: .00

### SCI 102 - Energy & Work\*SMI Credits: 4.00

#### Gen Ed Core-Natural, Math & Info Sciences

The course is designed to provide students with a broad background in the physical sciences with emphasis on the scientific method and energy. The curriculum stresses both theoretical principles and applications of concepts using experimentation as a vehicle for modeling scientific process. This course is especially suited for those students preparing for elementary school science teaching. Prerequisite: SCI 101 and MATH 070.

### SCI 102L- Energy & Work Lab Credits: .00

### SCI 103 - Matter\*SMI Credits: 4.00

#### Gen Ed Core-Natural, Math & Info Sciences

The course is designed to provide students with a broad background in the physical sciences with emphasis on the scientific method and basic chemistry. The curriculum stresses both theoretical principles and applications of concepts using experimentation as a vehicle for modeling scientific process. This course is especially suited for those students preparing for elementary school science teaching. Prerequisite: SCI 101, 102 and MATH 070.

### SCI 103L- Matter Lab Credits: .00

### SCI 110 - Selected Topics Credits: 1.00 TO 6.00

Provides flexibility in offerings within various science areas.

### SCI 200I- INTACT Credits: 1.00

### SCI 207 - Seminar Credits: 1.00 TO 15.00

### SCI 208 - Workshop Credits: 1.00 TO 6.00

### SCI 209 - Field Placement Credits: 1.00 TO 15.00

A planned and supervised work experience at an introductory

level designed to offer students opportunity to explore or finalize career goals. The work experience extends the student's learning experience beyond the classroom through approved learning objectives.

### SCI 210 - Selected Topics Credits: 1.00 TO 6.00

Provides flexibility in offerings within various science areas.

### SCI 215 - Health Care Term I Credits: 1.00

### SCI 216 - Health Care Term II Credits: 1.00

### SCI 219 - Plants & People Credits: 3.00

### SCI 221 - Intro To Astronomy\*SMI Credits: 3.00

#### Gen Ed Core-Natural, Math & Info Sciences

An overview of the history of astronomy, structure and evolution of the solar system, stellar systems and evolution, galactic structure, interstellar medium, cosmology, astronomical instrumentation. Prerequisite: MATH 095 or higher or consent of instructor.

### SCI 239 - Hist Of Science\*SMI Credits: 3.00

#### Gen Ed Core-Natural, Math & Info Sciences

An introduction to the History of Science conducted through an interdisciplinary exploration of scientific revolutions, myths and paradigms. The course will chronicle major developments in scientific thinking and analyze how the world most influential scientists have historically balanced their scientific discoveries and beliefs with religion, technology, medicine, gender, war, government and art.

### SCI 241 - Environmental Science Credits: 4.00

Human and environment interrelationships. Human population growth, food needs and production; energy and resource supply and demand; pollution; extinction; economic political and social influences. Prerequisite: BIOL 103 or BIOL 213 or BOT 202.

### SCI 310 - Selected Topics Credits: 1.00 TO 6.00

Provides flexibility in offerings within various science areas. Prerequisite: Completion of 45 hours of college credit. Student must have at least sophomore standing to register for this course.

### SCI 312 - Pharmacology Credits: 4.00

Introduction to general drug categories with emphasis on major drug groups; antibiotics, autonomic drugs, cardiovascular drugs, and central nervous system drugs. Prerequisite: 12 hours of college level biology and chemistry or equivalent. Student must have at least sophomore standing to register for this course.

### SCI 315 - The New Universe\*SMI Credits: 2.00

#### Gen Ed Core-Natural, Math & Info Sciences

Course will focus on new developments in telescope technology and imaging devices and capabilities in space that have allowed observations in the last two decades and revolutionized our view of the universe. Student must have at least sophomore standing to register for this course.

**SCI 317 - Adv Science Writing Credits: 3.00**

Advanced study of writing in the scientific disciplines. Students will analyze professional discourses from various scientific disciplines using fundamental and advanced rhetorical theories. Students will compose scientific discourses in several genres, such as research articles, research proposals, and review articles, and will also learn about and practice editing and preparing a manuscript for submission to a publication. Student must have at least sophomore standing to register for this course.

**SCI 401 - Research Credits: 1.00 TO 15.00**

Student must have at least junior standing to register for this course.

**SCI 405 - Reading & Conference Credits: 1.00 TO 15.00**

Student must have at least junior standing to register for this course.

**SCI 407 - Seminar Credits: 1.00 TO 15.00**

Student must have at least junior standing to register for this course.

**SCI 408 - Workshop Credits: 1.00 TO 6.00**

Student must have at least junior standing to register for this course.

**SCI 409 - Field Placement Credits: 1.00 TO 15.00**

Supervised experience (while enrolled in college) designed to offer opportunity to explore career areas and learning situations through field placement that parallels one's academic major. Student must have at least junior standing to register for this course.

**SCI 410 - Selected Topics Credits: 1.00 TO 6.00**

Provides flexibility in offerings within various science areas. Prerequisite: Completion of 90 hours of college credit. Student must have at least junior standing to register for this course.

**SCI 410L- Lab Credits: .00**

Student must have at least junior standing to register for this course.

**SCI 411 - Hist of Science Credits: 3.00**

Brief history of the development of science, its social implications and the growth of scientific method and spirit. Prerequisite: Completion of 90 hours of course work. Student must have at least junior standing to register for this course.

**SCI 501 - Research Credits: 1.00 TO 15.00**

Student must have graduate standing to register for this course.

**SCI 505 - Reading & Conference Credits: 1.00 TO 15.00**

Student must have graduate standing to register for this course.

**SCI 507 - Seminar Credits: 1.00 TO 15.00**

Student must have graduate standing to register for this course.

**SCI 510 - Selected Topics Credits: 1.00 TO 6.00**

Student must have graduate standing to register for this course.

**SCI 511 - Contemp Dev Sci Credits: 3.00**

Emphasis on the more important aspects of contemporary developments in the natural sciences as it relates to teaching in the elementary school. Selected readings. The course is designed for elementary teachers. Prerequisite: One year of teaching experience at the K-9 level. Student must have graduate standing to register for this course.

**SCI 521 - Hist of Science Credits: 3.00**

In-depth studies from selected areas in the history of science. Prerequisite: Graduate standing. Student must have graduate standing to register for this course.

**SCI 708 - Workshop Credits: 1.00 TO 6.00**

Student must have graduate standing to register for this course.

## Eastern Oregon University

# Social Science

### OBJECTIVES

Provides a broad spectrum of courses for students requiring work in social and behavioral sciences.

### SOCIAL SCIENCE COURSE DESCRIPTIONS

**SSCI 101- Intro to Soc Sci Credits: 3.00**

**SSCI 102- Intro to Soc Sci Credits: 3.00**

**SSCI 103- Intro to Soc Sci Credits: 3.00**

**SSCI 110- Selected Topics Credits: 1.00 TO 6.00**

**SSCI 145- Survival Skls Dstnce Lrnrs Credits: 2.00**

This course provides distance students the opportunity to