

**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 - Intro to Physical Science Practices\*SMI (Credits: 4)****Gen Ed Core-Natural, Math & Info Sciences****Institutional Graduation Requirements – UWR**

The course is designed to provide students with a broad background in the physical sciences area with emphasis on science and engineering practices and the integration of STEM (science, technology, engineering, math) content. The curriculum stresses both theoretical principles and applications of concepts using laboratory investigations, hands-on projects and scientific inquiry. This course is especially suited for those students preparing for elementary school science teaching. Prerequisites: MATH 070.

**SCI 102 - Intro to Earth Science Practices\*SMI (Credits: 4)****Gen Ed Core-Natural, Math & Info Sciences****Institutional Graduation Requirements – UWR**

The course is designed to provide students with a broad background in the earth sciences area with emphasis on science and engineering practices and the integration of STEM (science, technology, engineering, math) content. The curriculum stresses both theoretical principles and applications of concepts using laboratory investigations, hands-on projects and scientific inquiry. This course is especially suited for those students preparing for elementary school science teaching. Prerequisite: SCI 101 and MATH 070.

**SCI 103 - Matter\*SMI (Credits: 4)****Gen Ed Core-Natural, Math & Info Sciences**

The course is designed to provide students with a broad background in chemistry with emphasis on science and engineering practices and the integration of STEM (science, technology, engineering, math) content. The curriculum stresses both theoretical principles and applications of concepts using laboratory investigations, hands-on projects and scientific inquiry. This course is especially suited for those students preparing for elementary school science teaching. Prerequisite: MATH 070 or equivalent.

**SCI 110 - Selected Topics (Credits: 1 to 6)**

Provides flexibility in offerings within various science areas.

**SCI 116 - Future Health Professionals of Oregon (Credits: 2)**

Future Health Professionals of Oregon serves as a starting block for those interested in health careers. The course gives students fundamental skills required in health careers, while allowing them to expand their

understanding of the requirements of entry into this field. Students will also experience critical thinking discussions around current topics in contemporary health care. In addition to completing all lessons, students are required to complete a 12 hour job shadow placement in the health field. Students may complete an instructor approved project in lieu of a job shadow placement.

**SCI 200I - INTACT (Credits: 1)****SCI 207 - Seminar (Credits: 1 to 15)****SCI 208 - Workshop (Credits: 1 to 6)****SCI 209 - Field Placement (Credits: 1 to 15)**

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 to 6)**

Provides flexibility in offerings within various science areas.

**SCI 215 - Medical Terminology (Credits: 3)**

The course provides a study of the principles of medical word building to help the student develop extensive medical vocabulary used in health care occupations. Study focuses on word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, used to describe surgical procedures, diagnostic procedures, and medical specialties. Includes definitions, spelling and pronunciation of medical terms and terminology appropriate for the following body systems: digestive, urinary, female and male reproductive, nervous, cardiovascular, respiratory, blood, lymphatic and immune, and musculoskeletal. Prerequisites: WR 115 or WR 121.

**SCI 221 - Intro to Astronomy\*SMI (Credits: 3)****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 - History of Science\*SMI (Credits: 3)**

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

**Institutional Graduation Requirements – UWR**

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's most influential scientists have historically balanced their scientific discoveries and beliefs with religion, technology, medicine, gender, war, government, and art.

**SCI 401 - Research (Credits: 1 to 15)**

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

**SCI 405 - Reading & Conference (Credits: 1 to 15)**

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

**SCI 408 - Workshop (Credits: 1 to 6)**

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

**SCI 409 - Field Placement (Credits: 1 to 15)**

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 to 6)**

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: 0)**

Must be taken concurrently with SCI 410. Student must have at least junior standing to register for this course.