

# EEPS - Earth, Environmental and Physical Sciences

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Courses numbered 100 to 299 = *lower-division*; 300 to 499 = *upper-division*; 500 to 799 = *undergraduate/graduate*.

## **EEPS 700. Technical Sessions (1).**

Through seminar presentations by students, faculty and guest lectures, students critically analyze essential elements and skills of effective oral presentation of scientific research methodology, data and results to audiences of diverse backgrounds; learn techniques of effective use of visual display media, presentation styles and speaker-audience interactions. Must be taken for two semesters for maximum of 2 credit hours toward the degree. Prerequisite(s): graduate standing or instructor's consent.

## **EEPS 701. Computer Methods in Science (3).**

Cross-listed as GEOL 690AJ. Surveys computer applications commonly used by scientists, emphasizing nonstatistical applications. Includes computer-assisted instruction, data management, presentation packages, internet resources, digital image analysis, graphics and spreadsheets, reference acquisition and management, desktop publishing, and specialized applications for modeling, simulations, mapping and time-series analysis. Lectures and demonstrations involve individual hands-on activities and student projects. This course has a lab component. Prerequisite(s): graduate standing or instructor's consent.

## **EEPS 702. Research Methods (3).**

The primary goal of this course is to investigate research methods and tools used in science and their specific applications in geology. Participants learn to write and orally present a research proposal and also gain experience in constructively critiquing each other's work. Prerequisite(s): graduate standing or instructor's consent.

## **EEPS 710. Great Discoveries and Controversies in Science (3).**

Foundation, history and insights that led to great discoveries in various scientific fields, and which caused great and continuing controversies in scientific theory, the advancement of science, and lessons and perspectives to be learned for future scientific research. Course involves lectures, seminars, literature research, essay writing and presentation by students. Prerequisite(s): graduate standing or instructor's consent.

## **EEPS 720. Scientific Writing (1).**

Procedure, organization, format and style of a variety of technical and scientific publication vehicles, such as abstracts, professional journal articles, government and industrial reports and paper and book reviews. Essential elements and skills of effective scientific written communication. Must be taken in conjunction with any course (except EEPS 889 and 890) that requires extensive writing. Repeatable for a total of 2 credit hours toward the degree. Prerequisite(s): EEPS 700.

## **EEPS 721. Current Issues in Global Environmental Science (3).**

Introduces and uses basic concepts relating to ecosystems, habitats, environments and resources as a basis for understanding environmental problems at different spatial and temporal scales. An interdisciplinary approach frames these problems to facilitate understanding of inter-relationships required for environmental analysis, remediation and management. Prerequisite(s): EEPS 710 or instructor's consent.