

University of Arkansas – Fort Smith
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General Syllabus

CHEM 49063 Special Topics: Chemistry

Credit Hours: 3 Lecture Hours: 3 Laboratory: 0

Prerequisites: CHEM 27363/27261 Organic Chemistry II/Laboratory

Effective: 2018~2019

I. Course Information

A. Catalog Description

Current advanced topics in chemistry are explored through lecture and/or laboratory work. Topics are selected based on student and faculty interest. May be repeated for a total of six hours.

II. Student Learning Outcomes

A. Subject Matter

Upon successful completion of this course, the student will be able to:

1. Interpret and present chemical topics in depth.

B. University Learning Outcomes

Special Topics enhances student abilities in the following areas:

Analytical Skills

Critical Thinking Skills: Students will identify a problem or issue and will research, evaluate, and compare information from varying sources in order to evaluate authority, accuracy, recency, and bias relevant to the problems/issues. Students will generate solutions/analysis of problems/issues evaluated and will assess and justify the solutions and/or analysis.

Communication Skills (written and oral)

Students will communicate proficiently. Students will compose coherent documents appropriate to the intended audience and effectively communicate orally in a public setting.

Ethical Decision Making

Students will model ethical decision-making processes. Students will identify ethical dilemmas and affected parties and will apply ethical frameworks to resolve a variety of ethical dilemmas.

Global & Cultural Perspectives

Students will reflect upon cultural differences and their implications for interacting with people from cultures other than their own. Students will demonstrate understanding or application of their discipline in a global environment and will demonstrate how their discipline impacts or is impacted by different cultures.

III. Major Course Topics

Topics are dependent on each offering because faculty with different specialties will rotate through the teaching of this course. A faculty member who is teaching determines the topic and the points of emphasis of that given offering.