

University of Arkansas – Fort Smith  
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## General Syllabus

### CHEM 4903 Special Topics: Chemistry

Credit Hours: 3                      Lecture Hours: 3                      Laboratory: 0

Prerequisites: CHEM 2713/2711 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.