

University of Arkansas – Fort Smith
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General Syllabus:

CHEM 449V Internship in Chemistry

Credit Hours: 1-3 Variable

Internship/Practicum Hours: 1-3 Variable

Prerequisite: Chemistry Major and consent of department head

Effective: 2018~2019

I. Course Information

A. Catalog Description

Students obtain practical experience by applying their knowledge of chemistry theory and laboratory skills in a professional chemistry laboratory setting. Student is supervised by a chemistry faculty member and liaison from the laboratory site. 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. Successfully and efficiently work in a professional setting specializing in chemistry research.
2. Apply using appropriate techniques of analysis and evaluation to produce scientifically meritorious work.

B. University Learning Outcomes

This course 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 covered are dependent on each offering because faculty with different specialties will teach this course with interested students. A faculty member who is teaching determines the topic and the points of emphasis of that given offering.