Operational Excellence and Assessment Support

Academic Learning Compacts

College of Sciences
Academic Learning Compacts

Chemistry - B.S.

**Discipline Specific Knowledge, Skills, Behavior and Values**

1. Students graduating from our program will have knowledge of chemistry that compares favorably to national averages. Evaluation will be based on knowledge and critical thinking in the common sub-disciplines of chemistry: Physical, Organic, Inorganic, and Analytical. Additional assessment indicators include Biochemistry and Critical Thinking and Reasoning.

2. Students graduating from our program will have a high level of satisfaction in how well they were prepared for their career path. The level of satisfaction will be measured by means of a comprehensive survey of graduating students in the program and their application to future graduate and professional programs.

3. Graduates will be prepared to make technical presentations suitable for professional audiences.

4. Graduates will be able to carry out a literature review and demonstrate critical thinking skills sufficient to allow them to conduct substantial research projects.

5. Students will demonstrate mastery of written communication skills appropriate to chemistry research.

6. Students of our program will have a knowledge of Freshman Chemistry which compares favorably to that of students nationally, and laboratory skills related to freshman chemistry lectures.

7. Students will have a knowledge of Organic Chemistry which compares favorably to that of students nationally, and laboratory skills related to organic chemistry lectures.

8. Students of our program will have a knowledge and laboratory skills in Physical Chemistry which compare favorably to that of students nationally.

**Critical Thinking**

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Reasoning

2. Students graduating from our program will have a high level of satisfaction in how well they were prepared for their career path. The level of satisfaction will be measured by means of a comprehensive survey of graduating students in the program and their application to future graduate and professional programs.

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7. Students will have a knowledge of Organic Chemistry which compares favorably to that of students nationally, and laboratory skills related to organic chemistry lectures.

8. Students of our program will have a knowledge and laboratory skills in Physical Chemistry which compare favorably to that of students nationally.

Communication

1. Students graduating from our program will have a high level of satisfaction in how well they were prepared for their career path. The level of satisfaction will be measured by means of a comprehensive survey of graduating students in the program and their application to future graduate and professional programs.

2. Graduates will be prepared to make technical presentations suitable for professional audiences.

3. Students will demonstrate mastery of written communication skills appropriate to chemistry research.

Assessment of Chemistry - B.S. Outcomes

These outcomes will be assessed using a variety of assessment methods, including:

- Tests
- Laboratory reports
- Seminar development
- Papers
- Presentations