Chemistry

Program Description Type Degree

Chemistry, B.S. (http://coursecat.isu.edu/undergraduate/scienceengineering/chemistry/bs-chemistry/) Degree B.S.

Chemistry, B.A. (http://coursecat.isu.edu/undergraduate/scienceengineering/chemistry/ba-chemistry/) Degree B.A.

Biochemistry, B.S. (http://coursecat.isu.edu/undergraduate/scienceengineering/chemistry/bs-biochemistry/) Degree B.S.

Chemistry, Combined B.S./M.S. (http://coursecat.isu.edu/undergraduate/scienceengineering/chemistry/bs-ms-chemistry/) Degree B.S./M.S.

Chemistry, Minor (http://coursecat.isu.edu/undergraduate/scienceengineering/chemistry/minor-chemistry/) Minor

Objectives:

1. To gain a well-rounded knowledge of the basic fields of the discipline.

2. To develop an understanding of how chemists think, gather evidence, process data, and reach tentative conclusions.

3. To think critically about experimental observations and theories.

4. To develop effective oral and written communication skills.

5. To engage in problem solving.

6. To prepare for a career or profession after graduation in the field of chemistry either as an educator or in industry.

7. To be able to competitively pursue a health-related advanced professional degree.

Our chemistry courses will prepare students for industrial or government laboratory work or for graduate study in chemistry, biochemistry, or allied fields or serve as preparation for medical, pharmacy, optometry, physician assistant, or dental school.

The department offers five degree programs: four traditional degrees and a unique combined B.S./M.S. program. The Bachelor of Arts degree is designed for students who desire a flexible program so they can develop more interdisciplinary competence. This degree is ideal for those students endeavoring to work at the chemistry/biology/pharmaceutical chemistry interface. The Bachelor of Science degree places greater emphasis on comprehensive chemistry, leading to American Chemical Society (ACS) certification upon graduation. The Bachelor of Science degree in Biochemistry is a joint program with the Department of Biological Sciences. The combined B.S./M.S. program is designed to enable students to attain both a B.S. and an M.S. in a five year time frame. This program allows the student to receive the ACS-certified Bachelor of Science degree and the Master of Science degree at the end of the fifth year. Students may apply as sophomores for this program and can be admitted into the program at the beginning of their junior year. The department offers a Master of Science degree as well for individuals who already possess a Bachelor of Science in Chemistry.

Course work to be used as a prerequisite for a chemistry class must have been taken within the most recent 5 year period unless the student obtains permission of the instructor and has a grade of C- or better. All credits applied to a chemistry degree or applied to chemistry courses used to partially satisfy Objective 5 must have been taken within the most recent 10 years unless it can be shown that the coursework taken earlier covers material that has not changed substantially during the intervening time, or that the student has been able to remain current in the topics covered in the course. Evidence that the older coursework is still appropriate must be approved by the department chairperson.

Plans of Study (http://coursecat.isu.edu/undergraduate/scienceengineering/chemistry/plans-of-study/)

Faculty (http://coursecat.isu.edu/undergraduate/scienceengineering/chemistry/faculty/)

CHEM Courses (http://coursecat.isu.edu/undergraduate/allcourses/chem/)