

DEPARTMENT OF CHEMISTRY

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ABOUT THE DEPARTMENT AND ITS ACADEMIC PROGRAMS

The UW-Platteville Department of Chemistry offers several different majors as well as a minor in chemistry.

Six organized programs of chemistry coursework are offered to meet the varied needs of our students. They include: the standard chemistry major; the American Chemical Society (ACS) certified chemistry major; the biochemistry and biotechnology emphasis; the ACS biochemistry emphasis; two alternative criminalistics emphases, ACS-track and DNA-track; and the chemistry minor.

MAJORS

- Chemistry Major, American Chemical Society (ACS) Certified, B.S. (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-ac-s-approved-bs/>)
- Chemistry Major, Biochemistry Emphasis, ACS Certified (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-ac-s-approved-bs/#biochemistry-ac-s>)
- Chemistry Major, Biochemistry and Biotechnology Emphasis (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-standard-bs/#biochemistry-and-biotechnology>)
- Chemistry Major, Criminalistics Emphasis, ACS Track (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-ac-s-approved-bs/#criminalistics-ac-s>)
- Chemistry Major, Criminalistics Emphasis, DNA Track (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-standard-bs/#criminalistics-dna-track>)
- Chemistry Major, Standard, B.S. (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-standard-bs/>)¹

¹ also recommended for secondary-education students who plan to teach high-school chemistry.

MINOR

- Chemistry Minor (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/minor/>)

GENERAL REQUIREMENTS, BACHELOR OF SCIENCE DEGREES

Course	Title	Credits
Total for graduation		120 credits
General education		26-39 credits
Major requirements		38-72 credits

ADMISSION

For admission to the chemistry program, students must either declare chemistry as their major at initial registration, or else submit a change of major form to the Registrar's Office.

ACADEMIC STANDARDS

Once admitted to the chemistry program, students must maintain a satisfactory level of academic performance in order to continue in the major. The following standards are required for chemistry degree programs.

1. All chemistry majors are required to participate in either an independent-research or industrial-work experience during their junior or senior year. This requirement can be satisfied either by CHEMISTRY 4000 or CHEMISTRY 4660. Students in either of the criminalistics emphases may satisfy this requirement through CHEMISTRY 4680.

EDUCATIONAL MISSION

The curriculum offered by the chemistry department is intended to help its students develop a sound grasp of the basic concepts and applications that relate to the properties of matter and its chemical transformations, as well as exposing them to relevant experimental methods and analytical techniques. The department is committed to providing a strong foundation in the chemical sciences to all its students, both majors and non-majors.

Therefore, the chemistry program cultivates an intellectual environment and educational experiences that:

1. provide students majoring in chemistry with high-quality preparation that is equally well suited for either successful professional practice in chemistry, or admission to graduate/professional school;
2. provide students majoring in other areas that specifically require chemistry as part of their curricula with a broad-based knowledge of chemistry, meeting the needs of their majors;
3. provide general education students with both a broad-based introduction to chemistry, as well as insight into the nature and limitations of scientific inquiry and knowledge.

EXPECTED STUDENT OUTCOMES

By the time they graduate, UW-Platteville chemistry majors should:

1. be scientifically literate and possess a broad-based knowledge of chemical principles and techniques,
2. be able to solve problems through creative and analytical thinking,
3. be effective communicators,
4. be intellectually curious and value lifelong learning,
5. value and appreciate the importance of professional ethics,
6. be able to work independently as well as cooperatively.

Non-chemistry science or engineering majors who complete their appropriate sequence of chemistry coursework should be able to apply their knowledge of chemistry to their own majors.

Non-science majors who take a chemistry course in satisfaction of their general-education requirements should discover the patterns, principles, and dynamics that find expression in empirical science; assess the character, possibilities, and limitations of the scientific method; and engage directly in the observation and study of natural phenomena.

MAJORS

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- Chemistry Major, Biochemistry and Biotechnology Emphasis (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-standard-bs/#biochemistry-and-biotechnology>)
- Chemistry Major, Criminalistics Emphasis, DNA Track (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-standard-bs/#criminalistics-dna-track>)
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- Chemistry Major, Biochemistry Emphasis, ACS Certified (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-ac-s-approved-bs/#biochemistry-ac-s>)
- Chemistry Major, Criminalistics Emphasis, ACS Track (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/major-ac-s-approved-bs/#criminalistics-ac-s>)

RELATED MAJOR

- Computer Science + Chemistry (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/computer-science-software-engineering/computer-science-bs/#chemistry>)

MINOR

- Chemistry Minor (<http://catalog.uwplatt.edu/undergraduate/engineering-mathematics-science/chemistry/minor/>)

FACULTY AND LECTURERS

Additional information about the Faculty and Lecturers below may be found in the Faculty and Academic Staff (<http://catalog.uwplatt.edu/faculty-academic-staff/>) section of this catalog.

Chattopadhyay, Soma

Cornett, Charles R.

Fetterly, Brandon

Hamilton, James P.

Li, Qiong (June)

Mackenzie, Ian

Marni, Farzana

Maunnamalai, V. Raja

Mendis, Chanaka

Pugh, Raymond

Pugh, Samantha

Pulkrabek, Kimberly

Rabbani, Mohammad

Reinstein, Jesse G.

Swallen, Stephen F.

Wu, Tsunghsuch