

# CHEMISTRY, B.S.

## ADVISING AND CAREERS

### ADVISING

The chemistry advisor provides advising for chemistry majors and prospective chemistry majors. Both appointments and drop-in hours are available. See Undergraduate Advising (<https://www.chem.wisc.edu/undergraduate-advising/>) on the Department of Chemistry website for more details.

The Chemistry website also provides information about introductory chemistry courses (<https://chem.wisc.edu/introductory-chemistry-courses-and-placement/>) and placement for continuing and new undergraduate students (<https://chem.wisc.edu/new-undergraduate-students/>) interested in taking a chemistry course. Students with enrollment and course access questions should visit the enrollment inquiries (<https://chem.wisc.edu/enrollment-inquiries/>) page. If further assistance is needed, students may visit the Undergraduate Chemistry Office (room 1351 Chemistry) during normal business hours, email ([undergrad@chem.wisc.edu](mailto:undergrad@chem.wisc.edu)), or call 608-263-2424.

Chemistry majors interested in getting involved in research should explore the undergraduate research (<https://undergradresearch.chem.wisc.edu/>) pages on the chemistry website. Students needing additional information may contact the undergraduate research director by email ([chem\\_ugr\\_research@chem.wisc.edu](mailto:chem_ugr_research@chem.wisc.edu)).

### COURSE SELECTION AND SEQUENCING

The Requirements (<https://guide.wisc.edu/undergraduate/letters-science/chemistry/chemistry-bs/#requirementstext>) page provides the minimum requirements necessary for completing the chemistry major. This section provides additional advisory information about course selection and sequencing.

- In addition to MATH 222 Calculus and Analytic Geometry 2, it is highly recommended that majors also take MATH 234 Calculus--Functions of Several Variables and MATH 320 Linear Algebra and Differential Equations. The extra math is especially helpful to students when they take the required physical chemistry courses.
- PHYSICS 207 / PHYSICS 208 is the preferred physics sequence for most chemistry majors, while PHYSICS 201 / PHYSICS 202 is recommended for engineering students. PHYSICS 247 / PHYSICS 248 is intended for students considering a major in physics, astronomy-physics, or AMEP (applied mathematics, engineering, and physics).
- Chemistry majors are strongly encouraged to take either CHEM 329 or CHEM 116 (as opposed to CHEM 327) to satisfy their analytical chemistry requirement, because research is an integral part of these two courses. Both CHEM 329 and CHEM 116 come with honors credit, but students do not need to be part of an honors program to enroll.
- Most chemistry majors take CHEM 561 or CHEM 565 for Physical Chemistry Part 1. Students also majoring in chemical and biological engineering take CBE 310 instead. M S & E 330 is recommended only for students also majoring in materials science and engineering.

- It is recommended that CHEM 563 be taken after Physical Chemistry Part I and that CHEM 564 be taken after CHEM 562. Especially strong students needing to complete physical chemistry in two semesters may take CHEM 563 concurrently with CHEM 561 (or CHEM 565) and CHEM 564 concurrently with CHEM 562.

### CAREER SERVICES

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

Students are encouraged to begin their career planning early and to take advantage of the numerous resources offered by SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science (see below). Information about careers, internships, resumes, cover letters, job search strategies, interviewing, and graduate school preparation are all available through SuccessWorks. Students can also register for Handshake (<https://wisc.joinhandshake.com/login/>), an online resource for students to make connections with potential employers. Current career, research, and internship opportunities of specific interest to chemistry students can be found on the Career Services (<https://chem.wisc.edu/career-services/>) pages of the chemistry website.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)