

Chem 110. Cutting-Edge Chemistry: Research and Career Opportunities.

1 Credit. One class per week at 4:10 PM on Thursdays in 1104 Hall
Note that some class meetings may be held in other locations
Students who are not enrolled in the course are welcome to attend (so bring a friend!).

Chem 110. Cutting-Edge Chemistry: Research and Career Opportunities. (1-0) Cr. 1. S. Overview of careers in chemistry: industrial, governmental, and academic careers; literature and compound search instruction; professional ethics; and an introduction to joining a research lab. For students majoring or minoring in chemistry or chemistry-related fields.

Course Objectives & Outcomes: Students will gain a solid understanding of current research directions in chemistry and how these relate to career options in and related to chemistry. Students will be introduced to career planning. Students will learn about the process of joining a research lab and the importance of experiential learning. Students will learn to perform chemistry literature and compound searches. Professional ethics will be integral of the discussions throughout the semester.

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Grading: This course will be graded on a Pass/Not-Pass basis. In order to obtain a P or Passing grade, each student must attend class, complete all assignments, and participate in discussions. Missed class: students are allowed one unexcused absence. For each additional class missed, students will be required to attend one additional seminar and write a short description (see "Seminars" on the next page).

Cell phones and texting during class: To show respect for speakers, classmates, and the course instructors, cell phones must be shut off during the class (not just silenced) and texting in class is forbidden; No surfing on the internet or reading newspapers.

Resume: All students in Chem 110 are required to put together a resume. The due date for the resume will be at the start of class on August 27th. Guidelines for resumes: <https://careers.las.iastate.edu/prepare/resumes-and-communications/>

Faculty Mentor: All students in Chem 110 are required to meet with their faculty mentor once during the course of the semester. Documentation: have mentor sign a form indicating that you met.

Career Fair: All students in Chem 110 are required to attend any one of the career fairs: i) the Business, Industry, and Technology, ii) People to People, iii) the Engineering Career Fair, iv) Agriculture and Life Sciences Career Day. Students are welcome to attend all. **Career fairs this semester are virtual.**

Engineering Fall Career Fairs – September 15 and 16, 2020, 10:00am – 6:00pm, Virtual (short, online video meetings)
(Both fairs are a mix of all engineering majors and associated STEM majors)

Business, Industry and Technology Fall Career Fair – September 30, 2020, 10:00am, – 5:00pm, Virtual
(Business, Liberal Arts & Sciences, Human Sciences)

People to People Fall Career Fair – September 29, 2020, 10:00am – 5:00pm, Virtual
(Focused on Human/Social Services, Health/Wellness, Government, and Hospitality – Hosted by the Colleges of Human Sciences and Liberal Arts and Sciences)

Agriculture and Life Sciences Fall Career Day – October 13 and 14, 2020, 10:00am – 5:00pm, Virtual

Career and Professional Development Plan: This assignment is due on November 12th; the first draft of the assignment is due on **October 15th. The assignment MUST be submitted electronically on Canvas as an excel file.** Students are expected to work on the grid throughout the semester and are encouraged to utilize all available resources to complete the exercise and to maximize their learning (including staff at Career Services, Chem 110 instructors, their adviser, and professionals in fields that the student is interested in).

Seminars: Each student in the class is required to attend at least **one** chemistry or science-related seminar during the semester; for the seminar, each student must complete the “Windows to…” worksheet and submit a short (1 page or less) typed discussion/overview of the seminar. This seminar summary should be in the student’s words and briefly describe the highlights of the talk and any impact upon the student and is due within 1 week of the seminar. The “Windows to…” worksheet will be a useful tool for the summary. From time to time the instructors will suggest some seminars that would be of general interest and given by excellent speakers. Chemistry department seminars are usually held the following times: Wednesdays at 4:10 PM; Fridays at 1:10 PM and Fridays at 3:10 PM. Some seminars are held at different times. **Chemistry seminars will be virtual this semester.**

Chemistry seminars: <http://www.chem.iastate.edu/seminars/>

Biochemistry, biophysics, and molecular biology seminars: <https://www.bbmb.iastate.edu/>

Undergraduate research at ISU: <http://www.undergradresearch.iastate.edu>

Career and Graduate School Resources from the American Chemical Society (ACS):

Careers: <http://www.acs.org/content/acs/en/careers.html> (Includes resume-writing tips and guidelines)

Graduate School: <http://www.acs.org/content/acs/en/education/students/college.html>

COVID-19 health and safety requirements. Students are responsible for abiding by the university’s **COVID-19 health and safety expectations**. All students attending this class in-person are required to follow university **policy** regarding health, safety, and face coverings:

- wear a cloth face covering in all university classrooms, laboratories, studios, and other in-person instructional settings and learning spaces. Cloth face coverings are additionally required to be worn indoors in all university buildings, and outdoors when other people are or may be present where physical distancing of at least 6 feet from others is not possible. Students with a documented health or medical condition that prevents them from wearing a cloth face covering should consult with **Student Accessibility Services** in the Dean of Students Office.
- ensure that the cloth face covering completely covers the nose and mouth and fits snugly against the side of the face.
- practice physical distancing to the extent possible.
- assist in maintaining a clean and sanitary environment.
- not attend class if you are sick or experiencing symptoms of COVID-19.
- not attend class if you have been told to self-isolate or quarantine by a health official.
- follow the instructor’s guidance with respect to these requirements. Failure to comply constitutes disruptive classroom conduct. Faculty and teaching assistants have the authority to deny a non-compliant student entry into a classroom, laboratory, studio, conference room, office, or other learning space.

These requirements may be revised by the university at any time during the semester.

Academic Dishonesty. The class will follow Iowa State University’s policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office (<https://www.studentconduct.dso.iastate.edu/academic-misconduct>).

Prep Week. This class follows the Iowa State University Prep Week policy as noted in section 10.6.4 of the Faculty Handbook, (<https://www.provost.iastate.edu/faculty-and-staff-resources/faculty-handbook>).

Discrimination and Harassment. Iowa State University does not discriminate on the basis of race, color, age, ethnicity, religion, national origin, pregnancy, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. Veteran. Inquiries regarding non-discrimination policies may be directed to Office of Equal Opportunity, 3410 Beardshear Hall, 515 Morrill Road, Ames, Iowa 50011, Tel. 515-294-7612, Hotline 515-294-1222, email eooffice@iastate.edu.

Accessibility Statement. Iowa State University is committed to assuring that all educational activities are free from discrimination and harassment based on disability status. Students requesting accommodations for a documented disability are required to work directly with staff in Student Accessibility Services (SAS) to establish eligibility and learn about related processes before accommodations will be identified. After eligibility is established, SAS staff will create and issue a Notification Letter for each course listing approved reasonable accommodations. This document will be made available to the student and instructor either electronically or in hard-copy every semester. Students and instructors are encouraged to review contents of the Notification Letters as early in the semester as possible to identify a specific, timely plan to deliver/receive the indicated accommodations. Reasonable accommodations are not retroactive in nature and are not intended to be an unfair advantage. Additional information or assistance is available online at www.sas.dso.iastate.edu, by contacting SAS staff by email at accessibility@iastate.edu, or by calling 515-294-7220. Student Accessibility Services is a unit in the Dean of Students Office located at 1076 Student Services Building.

Religious Accommodation. Iowa State University welcomes diversity of religious beliefs and practices, recognizing the contributions differing experiences and viewpoints can bring to the community. There may be times when an academic requirement conflicts with religious observances and practices. If that happens, students may request the reasonable accommodation for religious practices. In all cases, you must put your request in writing. The instructor will review the situation in an effort to provide a reasonable accommodation when possible to do so without fundamentally altering a course. For students, you should first discuss the conflict and your requested accommodation with your professor at the earliest possible time. You or your instructor may also seek assistance from the Dean of Students Office (<https://www.studentassistance.dso.iastate.edu/>) at 515-294-1020 or the Office of Equal Opportunity, (<https://www.eoc.iastate.edu/>) at 515-294-7612.

Promoting student health and wellness:

- Iowa State University is committed to proactively facilitating the well-being of all students. We welcome and encourage students to contact the following on-campus services for assistance regarding their physical, intellectual, occupational, spiritual, environmental, financial, social, and/or emotional needs:
- Student Wellness call (515) 294-1099 or via the website (<http://studentwellness.iastate.edu>);
- Thielen Student Health Center call (515) 294-5801 (24/7 Medical Advice) or via the website (<http://www.cyclonehealth.org>);
- Student Counseling Services call (515) 294-5056 or via the website (<https://counseling.iastate.edu>);
- Recreation Services call (515) 294-4980 or via the website (<http://recservices.iastate.edu>).
- Students dealing with heightened feelings of sadness or hopelessness, thoughts of harm or suicide, or increased anxiety may contact the ISU Crisis Text Line (Text ISU to 741-741) or contact the ISU Police Department (515) 294-4428.

Fostering a safe community:

Green Dot Project: A green dot is any choice, behavior, word or attitude that promotes safety for everyone and communicates utter intolerance for power-based personal violence in our Iowa State University community. A green dot is anything you do to make our community safer. What is your Green Dot? Visit the Green Dot – Student Wellness website (<http://www.studentwellness.iastate.edu/greendot/>).

ISU's Principles of Community:

Students are responsible for living the tenets established in ISU's Principles of Community: Respect, Purpose, Cooperation, Richness of Diversity, Freedom from discrimination, and the Honest and respectful expression of ideas. Visit ISU's Principles of Community website (<http://www.diversity.iastate.edu/principles-of-community>)

Contact Information for Academic Issues

If you are experiencing, or have experienced, a problem with any of the above issues, email academicissues@iastate.edu (This email address for contact information is monitored and answered through the Office of the Senior Vice President and Provost.)