

CHEM S165

General Chemistry II introduces the fundamentals of chemistry with emphasis on scientific problem-solving skills; students learn chemical principles and apply these to solve qualitative and quantitative problems. Topics include kinetics, chemical equilibrium, acid-base chemistry, free energy and entropy, electrochemistry and nuclear chemistry.

Given the compressed schedule of a summer session, the course requires an extensive commitment of time and effort. Given that new course content builds upon material previously learned in the course, keeping up with the course is a priority, as there is very little time to go back and relearn concepts if not fully understood when first taught. Therefore attendance to all lectures and discussions are mandatory, including any class sessions that fall on holidays.

Instructor: Dr. Laura Herder (Laura.Herder@yale.edu)

Office Hours: I will be available to help you directly after class each day, in addition, I am happy to meet with you outside of these hours on an as needed basis (send an email to arrange days and times of additional hours)

Course Site: Canvas is used for the course website, and you are responsible for reading and knowing the course information described there including any announcements, due dates, exam dates, schedule of topics of each lecture, etc.

Class Times:

Lectures: MTWThF 9:30-10:45 am (attendance mandatory all 5 days)

Discussions: M & W 11:00-noon and Th 11:00-11:30 (attendance mandatory all sessions)

Required Resources:

Textbook: A complete general chemistry textbook is required for use for this course, you may use the chemistry textbook used in CHEM134L; if you do not own a textbook yet, see Canvas for links to an open-access (free) textbook that can be used for this course.

Calculator: You'll need access to a scientific calculator for use during homeworks and exams

Laboratoris: Labs at Yale are a different course (CHEM136L) and the organization and grades are separate.

Grading: The distribution of points can be found in the Canvas Gradebook but are split between:

- Attendance and participation during lectures and discussions
- Homeworks
- Exams

Letter grades will only be assigned to the entirety of the semester's work and not to individual assessments. Typically a final letter grade of a B+ corresponds to current and prior class averages, however it is possible for everyone to get an A if you all excel.

The final grades are not assigned with a curve, but based on cut-offs determined by the instructor; A is for consistently excellent work; B is for primarily correct answers, C represents a lack of understanding of some key concepts, D represents lack of understanding of most key concepts.

Academic Honesty Policy:

Yale College has guidelines on academic integrity, given in the undergraduate regulations at:

<http://yalecollege.yale.edu/campus-life/undergraduate-regulations>

[Links to an external site.](#)

It is your responsibility to be aware of these and to abide by them. Failure to do so will leave you open to severe sanctions.

Diversity, Equity, Inclusion, and Belonging and Accessibility:

Students from all backgrounds are encouraged to complete Chem 161. In particular, we are committed to increasing the representation of those populations that have historically been underrepresented in STEM due to either explicit or implicit discrimination. Further, there are no prerequisites for Chem 161. Therefore, for students who may not have a lot of background in STEM, we provide a variety of resources for gaining assistance.

If you have already established accommodations for exams with Student Accessibility Services, please communicate your approved accommodations to Dr. Herder at your earliest convenience. For more information on how to establish accommodations please see <https://sas.yale.edu/>