

## Tufts University Department of Chemistry Fall 2020 Course Guidance

The following guidance reflects our best understanding of fall teaching plans as of 8/31/2020. It is subject to change based on public health, government, and University guidance. Course descriptions and prerequisites can be found on SIS.

- Chem 1: Chemical Fundamentals with Lab, will be offered in a hybrid (dual) format. Recorded lectures will be posted online for student viewing at any time. Asynchronous versions of all class components, including pre-recorded lab experiments and data for workup, will be available for off-campus students. For students on-campus, in-person lab experiences will be available on a rotating basis to allow necessary physical distancing precautions. Some live synchronous online activities and in-person activities on campus will also be offered to enhance the education opportunities for the students who are able to attend.
- Chem 2: Chemical Principles w/Lab, will be offered in a hybrid format. Lectures and recitations will be broadcast synchronously via Zoom, with synchronous small-group breakout sessions. Lectures and recitations will be recorded for asynchronous viewing by students in disparate time zones. For students on-campus, in-person lab experiences will be available on a rotating basis to allow necessary physical distancing precautions. Asynchronous course components, including pre-recorded lab experiments with data for workup, will be available for off-campus students, regardless of time zone.
- Chem 6: Big Bang to Humankind, will be offered in an online format. Lectures, demos, and supplemental video content will be available for asynchronous viewing. Course instructors will facilitate formation of small virtual groups for synchronous viewing and discussing some of the pre-recorded content. Synchronous activities will include, but not be limited to, small group discussions, office hours, and virtual astronomical observations.
- Chem 11: General Chemistry, will be offered in a hybrid format. Lectures will be broadcast synchronously via Zoom and recorded for asynchronous viewing by students in disparate time zones. Frontiers lectures and recitation sections will also be virtual, either via live-meetings or pre-recorded seminars with recordings for asynchronous viewing. Office hours with the teaching assistants and with the instructor will take place virtually, but frequently to accommodate student schedules. For students on campus, in-person lab experiences will be held on a rotating basis to allow necessary physical distancing precautions. Asynchronous resources (including pre-recorded lab experiments and workup of resulting data) will allow all students to get a full educational experience.
- Chem 31: Physical Chemistry I will be offered in an online format with Zoom-based synchronous recitations. All content will be recorded for asynchronous viewing by students in other time zones.
- Chem 33: Physical Chemistry I Lab: Due to space limitations and physical distancing requirements for Fall, 2020, we will be adding sections of Chem 33 in Spring, 2021 on a one-time basis. We encourage students with the flexibility to take Chem 33 on campus this spring to do so. We expect to be able to offer a more complete in-lab experience at that time. For those students unable to defer taking the class until the spring, we will have a limited number of opportunities for Chem 33 this fall with some in-person lab work and a greater portion of pre-recorded remote lab. Both fall and spring offerings will include online-only options for those students unable to be on campus. The accompanying lecture course, Chem 31, will only be offered this fall, so student should plan on taking Chem 31 this fall, regardless of their enrollment choice for Chem 33.
- Chem 43: Bioanalytical Chemistry: Lecture and Lab sections will be delivered online.

- Chem 51: Organic Chemistry I: Lectures and recitations will be broadcast synchronously via Zoom and will be recorded for asynchronous viewing by students in disparate time zones. Content may include pre-recorded lectures and video podcasts. Additional office hours and review sessions will be offered to accommodate students in different time zones.
- Chem 53: Organic Chemistry I: Lectures and recitations will be broadcast synchronously via Zoom and will be recorded for asynchronous viewing by students in disparate time zones. For students on-campus, in-person lab experiences for a few of the experiments will be available on a rotating basis to allow necessary physical distancing precautions. In-person labs will be held at the previously scheduled time, so there is no need for rescheduling.
- Chem 61: Inorganic Chemistry: Lectures will be delivered in-person, or via synchronous Zoom, depending on space, and will be recorded for asynchronous viewing to accommodate off-site students.
- Chem 63: Inorganic and Synthetic Chemistry Lab: Labs will in-person at the regularly scheduled time.
- Chem 93/193-2 (Kenny) The Carbon Neutral Campus: will be offered as an online lecture/discussion via Zoom or an equivalent platform.
- Chem 133: Quantum Chemistry: Lectures and recitations will be broadcast synchronously via Zoom and will be recorded for asynchronous viewing by students in disparate time zones, if needed.
- Chem 138: Atomic Scale Structure & Surface Chemistry: Lectures and recitations will be broadcast synchronously via Zoom and will be recorded for asynchronous viewing by students in disparate time zones, if needed.
- Chem 141: Instrumental Analysis: CANCELLED. Will be offered Fall 2021.
- Chem 142: Advanced Analytical Methods: Lectures and student presentations will be delivered synchronously via Zoom and recorded for asynchronous viewing in other time zones.
- Chem 150: Intermediate Organic Chemistry: Lectures and recitations will be broadcast synchronously via Zoom and will be recorded for asynchronous viewing by students in disparate time zones, if needed.
- Chem 152: Advanced Organic Synthesis: In person, with synchronous broadcast. Lectures will also be saved to Zoom for asynchronous viewing.
- Chem 155: Organic Spectroscopy: Lectures and recitations will be broadcast synchronously via Zoom.
- Chem 161: Advanced Inorganic Chemistry: Lectures will be delivered in-person, or via synchronous Zoom, depending on space, and will be recorded for asynchronous viewing to accommodate off-site students.
- Chem 172: Biochemistry II: Most lectures and all recitations will be broadcast synchronously via Zoom and will be recorded for asynchronous viewing by students in disparate time zones. Some lectures may be pre-recorded. Office hours with the teaching assistants and with the instructor will take place virtually, but frequently to cover varying schedules of the students.
- Chem 193-01/Chem 257 Chemical Biology (Kritzer): Will be delivered in a hybrid mode, with some in-person content, as space permits.