



CHEM 343 – SYLLABUS – 2020

Course: Chemistry 343, “Introductory Organic Chemistry” – Lecture 3

Number of credits: 3 credits

Canvas course URL: <https://canvas.wisc.edu/courses/174736>

Course Designation: Intermediate level; physical science breadth; counts as L&S credit

Meeting Time and Location: TR 9:30 am, Room 1310 Sterling Hall

Instructional Mode: All face-to-face

Credit Hours are met by the Course *via the traditional Carnegie Definition*. The class meets each week for two 75-minute lectures and one 50-minute discussion. Over the course of the semester, students are expected to perform at least 135 hours of learning activities, which include class and discussion attendance, reading, studying, preparation, problem sets, and other related learning activities.

INSTRUCTORS & TEACHING ASSISTANTS

Instructor Title and Name: Professor Helen E. Blackwell

Instructor Availability: *Fridays at 1:30 pm, or by appointment.*

Instructor Email/Preferred Contact: blackwell@chem.wisc.edu

Teaching Assistants:

Matt Genzink	genzink@wisc.edu
Sam Kougias	kougias@wisc.edu

TA Office Hours: These times are subject to change, and the most up to date listing of these hours is available on the course Canvas page.

TA Email/Preferred Contact: Please see above.

OFFICIAL COURSE DESCRIPTION

Course Description

Chemistry 343 covers fundamental aspects of organic molecular structure, including stereochemistry, and introduces basic themes in organic reactivity. It is the first semester of a two-semester organic chemistry sequence. Chemistry 345 is the second course in the sequence. Class is for students expecting to take two semesters of organic chemistry.

Requisites

The following courses are prerequisites: Chem 104, Chem 109, or Chem 116

LEARNING OUTCOMES

Students in Chem 343 will:

- *Develop an understanding of the structures of organic molecules and how these structures influences their reactivity*
- *Develop an understanding of chirality and the stereochemical differences of organic molecules*
- *Learn the reactivity profiles of simple alkenes, alkanes, alkynes, alcohols, alkyl halides, and ethers*
- *Become familiar with standard organic reagents and solvents used to effect these reactions*
- *Gain a detailed mechanistic understanding of common reactions for alkenes, alkanes, alkynes, alcohols, alkyl halides, and ethers*
- *Gain an understanding of the stereochemical outcomes of these common reactions*

GRADING

- This course is graded based on a total point score of 600 points (3 exams [100 pts each] + 1 final exam [200 pts] + homework sets [50 pts] + discussion sections [50 pts])
- Final grades will be assigned based on a curve that is based on historical norms in the Department of Chemistry at UW–Madison.
- Attendance and participation in Discussion sections is part of the grading.

DISCUSSION SESSIONS

All students enrolled in Chem 343 lecture must also enroll in a discussion section that meets once per week. Attendance will be taken. Discussion sections, led by experienced graduate student teaching assistants, are largely designed as interactive problem solving sessions where students work on problems with guidance from the teaching assistant and peers. There also will be ample time for student questions.

LABORATORY SESSIONS

There is no associated lab session.

REQUIRED TEXTBOOK, SOFTWARE & OTHER COURSE MATERIALS

"Organic Chemistry" by Marc Loudon and Jim Parise, 6th Edition. There is an accompanying Study Guide and Solutions Manual. The textbook/manual bundle is available from the University Bookstore and likely other sources. The course will cover Chapters 2-11, 14, and 15 in Loudon.

EXAMS, QUIZZES, PAPERS & OTHER MAJOR GRADED WORK

- Quizzes: Four short, unannounced quizzes will be given in the weekly discussion sections throughout the semester.
- Exams: Three mid-term exams will be given in-class during our scheduled class period (75 min,

closed book/notes) throughout the semester.

- The Final exam is scheduled for Tuesday May 5 (2:45 pm – 4:45 pm).

HOMEWORK & OTHER ASSIGNMENTS

There are 12 required problem sets (one for each Chapter) for this course. They will be completed and submitted online using Sapling Learning. Each problem set will be ~15 problems in length. Many of these problems are based on those in the textbook. You should complete one problem set each week; the due dates for each set will be ~one week after the completion of the corresponding Chapter in class. You are encouraged to complete these problems sets quite a bit prior to their due date. Review problem sets (ungraded) will be available before exams.

RULES, RIGHTS & RESPONSIBILITIES

See the Guide's to [Rules, Rights and Responsibilities](#).

ACADEMIC INTEGRITY

By enrolling in this course, each student assumes the responsibilities of an active participant in UW-Madison's community of scholars in which everyone's academic work and behavior are held to the highest academic integrity standards. Academic misconduct compromises the integrity of the university. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. This includes but is not limited to failure on the assignment/course, disciplinary probation, or suspension. Substantial or repeated cases of misconduct will be forwarded to the Office of Student Conduct & Community Standards for additional review. For more information, please see: studentconduct.wiscweb.wisc.edu/academic-integrity/.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

"The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform faculty [me] of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. Faculty [I], will work either directly with the student [you] or in coordination with the McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student's educational record, is confidential and protected under FERPA."

<http://mcburney.wisc.edu/facstaffother/faculty/syllabus.php>

DIVERSITY & INCLUSION

Institutional statement on diversity: "Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world." <https://diversity.wisc.edu/>