

Missouri University of Science & Technology  
Chem 4210/5210 (3h), FS20  
*Intermediate Organic Chemistry I*

# SYLLABUS

Professor: Dr. Rainer Glaser

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Dr. Glaser's Home Page: <http://faculty.missouri.edu/~glaserr>

First Lecture: Monday, Aug. 24, 2020, 11 am, [Online Synchronous](#)

Office Hours: Thursday, 10 – 10:50 am, and by appointment ([Zoom](#))

Course Web Site: [http://faculty.missouri.edu/~glaserr/RG\\_T\\_FS20.html](http://faculty.missouri.edu/~glaserr/RG_T_FS20.html)

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All meetings of the course will be [online synchronous](#). Details will be provided by way of announcements in Canvas.

Course Objectives: An advanced course designed to give the student a mastery of the fundamentals of organic chemical reactions and theory. Prerequisite: Chem 2220.

Course Materials:

- (1) **Required:** Intermediate Organic Chemistry, 3<sup>rd</sup> Edition, 2015, Ann M. Fabirkiewicz, John C. Stowell. Wiley. ISBN-13: 978-1118308813; ISBN-10: 1118308816. (Amazon: \$95.27 on 7/24/20.)
- (2) **Required:** Organic Chemistry Molecular Model Set. For model options and ordering information, see Course Web Site under “Essentials” and listen to instructions in lecture.
- (3) **Recommended:** Advanced Organic Chemistry: Part A: Structure and Mechanisms, 5<sup>th</sup> Edition, 2008, Francis A. Carey, Richard J. Sundberg. Springer: ISBN-10: 9780387683461, ISBN-13: 978-0387683461. (Amazon: \$59.45 on 7/24/20.)
- (4) **Recommended:** Advanced Organic Chemistry: Part B: Reaction and Synthesis, 5<sup>th</sup> Edition, 2007, Francis A. Carey, Richard J. Sundberg. Springer. ISBN-10: 9780387683546, ISBN-13: 978-0387683546. (Amazon: \$70.77 on 7/25/20.)

*I think and think for months and years. Ninety-nine times,  
the conclusion is false. The hundredth time I am right.*

Albert Einstein

**Attendance/Assessment/Grading:** Attendance is required and counts 100 points toward your course grade. If you miss a class for a legitimate reason (sickness, conference, interview, sports, *etc.*), please provide some form of acceptable written proof (in electronic form if possible). Only one unexcused absence is tolerated, and every additional unexcused absence will reduce your attendance score by 10 points.

There will be **three tests** (100 points each) for a total of 300 points. There will be no final. Performance data for tests (i.e., average, standard deviation, minimum & maximum scores) will be provided so that you can assess your relative performance. We aim for test averages of about 65±5% but there are fluctuations. There will be no make-up exams for individual students. If an exam is missed for a legitimate reason (sickness *etc.*, with acceptable written proof), your overall performance (in percent) will be determined based on the reduced total (i.e., based on 200 points if you missed one test). If you know in advance that you will not be able to take an exam for a certain reason, talk to the instructor at least one week before that test. If you miss a test without a legitimate reason, you will receive a score of zero points.

There will be one **two assignments** (short paper, presentation of short paper) by each student. The assignments will be scored by peer review based on an instructor-provided rubric for a maximum of 100 points. Details will be posted on the course web site.

Letter grades will be assigned at the end of the course based on your overall performance (in percent out of a total of 500 points) relative to the course average and the standard deviation of the distribution of student total scores. The course average will be set to B.

**Usage of Cell Phones/Electronic Devices:** A note on cell phones, texting, and checking one's email during class: Research has shown us that even having our cell phones on the table in front of us diminishes our ability to learn well; further, taking notes via computer diminishes one's ability to process information. Checking texts, emails, and messages is also unprofessional and disrespectful to our class community. Please turn off your phone, email, and computer during class. I appreciate your cooperation with this important aspect of creating a class of which we all want to be a part. (Adapted from Yale's Poorvu Center for Teaching and Learning, cf. <https://poorvucenter.yale.edu/Using-Electronic-Devices-in-Class>).

**Instructor Response Time:** The instructor aims to respond to all emails and voicemails within 24 hours on weekdays and 48 hours on weekends. Most replies will be faster, but you cannot expect a quick reply in all cases. (Cf. E-Mail Boundaries. Kreuter, N. <https://www.insidehighered.com/advice/2012/02/06/essay-obligations-professors-e-mail>)

**Academic Integrity:** Academic integrity is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The academic community regards breaches of the academic integrity rules as extremely serious matters. The Missouri S&T Student Academic Regulations are published in accordance with campus and university system policies (<https://registrar.mst.edu/academicregs/index.html>). New and updated policies both at the campus and system level are published as new policies are passed. Please check back often to ensure that you have up-to-date information. Page 30 of the Student Academic Regulations handbook describes the student standard of conduct relative to the System's Collected Rules and Regulations section 200.010 and offers descriptions of academic dishonesty including cheating, plagiarism or sabotage. Additional guidance for faculty, including

a description of the process for dealing with issues related to academic dishonesty, is available online at <https://academicsupport.mst.edu>.

**Students with Disabilities:** If you have a documented disability and anticipate needing accommodations in this course, you are strongly encouraged to meet with me early in the semester. You will need to request that the Disability Services staff send a letter to me verifying your disability and specifying the accommodation you will need before I can arrange your accommodation. Disability Support Services is located at 204 Norwood Hall (phone: 341-4211; email: [dss@mst.edu](mailto:dss@mst.edu). For more information, see <https://dss.mst.edu/>.

**Intellectual Pluralism:** The University community welcomes intellectual diversity and respects student rights. For more information, see <https://sdi.mst.edu/>.

**Academic Inquiry, Course Discussion and Privacy - Faculty not allowing recording:** University of Missouri System Executive Order No. 38 lays out principles regarding the sanctity of classroom discussions at the university. The policy is described fully in Section 200.015 of the Collected Rules and Regulations. In this class, students may not make audio or video recordings of course activity, except students permitted to record as an accommodation under Section 240.040 of the Collected Rules. All other students who record and/or distribute audio or video recordings of class activity are subject to discipline in accordance with provisions of Section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.

Those students who are permitted to record are not permitted to redistribute audio or video recordings of statements or comments from the course to individuals who are not students in the course without the express permission of the faculty member and of any students who are recorded. Students found to have violated this policy are subject to discipline in accordance with provisions of Section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.

