Course Syllabus
Chemistry 337-020 Summer 2013

Institutional Mission

“The goal of Oregon State University is to provide students with a general education so they will acquire knowledge, skill and wisdom to deal with and contribute to contemporary society in constructive ways. Policies, procedures, and regulations are formulated to guarantee each student’s freedom to learn and to protect the fundamental rights of others. The assumption upon which these regulations are based is that all persons must treat all persons with dignity and respect in order for scholarship to thrive.”

Welcome

Welcome to Chemistry 337. This is the third and final course in the sequence for pre-professional students (medicine, dentistry, optometry, pharmacy and other health professions), chemical engineering students and those students, not majoring in chemistry, who require a year of organic chemistry.

The course is divided into fourteen units and blends online and on-campus deliveries of course content. Units one through ten are devoted to the chemistry and techniques you will encounter in the practical component of the course during your on-campus visit. The final four units deal with chemistry at the α-carbon of aldehydes, ketones and esters (Unit 11), amines and amides (Unit 12), amino acids, peptides and proteins (Unit 13) and radical chemistry (Unit 14).

Each unit is anchored to a set of topics, a collection of readings and in most instances a collection of questions to consider as you work through the readings. Lab related units include associated laboratory exercises. Toward the end of each unit you will find a list of learning objectives. Learning objectives form the basis for report and examination questions. Unit problem sets and collections of past exam questions are also provided.

Certain medical conditions may limit your full participation in the experimental components of this class. Students with conditions that could be negatively influenced by exposure to any of the materials used in the class should contact the instructor as soon as possible to discuss their options. Appropriate accommodations will be made on an individual case by case basis and where deemed necessary, in consultation with a health care provider.

I would ask that you now take a few moments to read through the remainder of this document. It will provide an overview of the course including information about grading, course content, student assistance and getting started.

Overview

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PART I ◊ General information

Subject/Course/Section: Organic Chemistry/CH 337/020
Credit Hours: Four
Instructor: Dr. Rajan D. Juniku
Contact: junikur@science.oregonstate.edu

In accord with university policy email inquiries must be sent from your ONID email address. Please limit email to text only (no attachments). For your convenience you may email me directly from the course’s Blackboard site using the Email Dr Juniku tab (Blackboard will send a copy of your email to your ONID email address). Before sending your inquiry please use the FAQ tab on the course’s Blackboard site as another student may have already raised a question about the topic you’re interested in (I typically post paraphrased versions of students’ questions along with a set of prepared comments). If this is the case please review my posted comments. If you still have questions, or if you are the first student to raise a question on a particular topic, please drop me an email. I will check email daily and will respond to course-related questions within two business days. For technical assistance with your ONID email account please see the Ecampus Technical Help website.
Prerequisites
One year of general chemistry: CH 121, CH 122 and CH 123 or CH 221, CH 222 and CH 223 (or equivalent)
CH 331 and CH 332 or CH 334, CH 335 and CH 336 (or equivalent)

Required Textbooks and Other Items
*organic Chemistry by Bruice (sixth edition)
**Techniques in Organic Chemistry by Mohrig, Hammond and Schatz (third edition)
A molecular model set
A 100 page lab notebook (with duplicate copy sheets)
Lab coat and safety goggles (available for purchase on Monday July 9)

*Special note for students who used McMurry’s textbook/study guide-solutions manual in CH 331/CH 332
- students who took CH 331/CH 332 do not need to purchase the Bruice books
- readings and assigned problems for Units 11 to 14 will be provided from the McMurry book

*Special note for students who used Wade’s textbook/study guide-solutions manual in CH 334/CH 335/CH 336
- students who still have their Wade books do not need to purchase the Bruice books
- readings and assigned problems for Units 11 to 14 will be provided from the Wade book

*Special note for students who used the fifth edition of Bruice’s textbook/study guide-solutions manual in CH 331/CH 332
- students who still have the fifth edition of the Bruice books do not need to purchase the sixth edition
- readings and assigned problems for Units 11 to 14 will be provided from the fifth edition of Bruice

**Special note for students who have the second edition of the Mohrig book
- students who have the second edition of Mohrig do not need to purchase the third edition
- readings will be provided from the second edition of Mohrig

Learning Resources Available on Blackboard
- Comprehensive course materials for each unit
- Each unit is anchored to a set of topics, a collection of readings and in most instances a collection of questions to consider as you work through the readings
- A collection of Abode slide presentations (for Units 2, 3, 6 and 9)
- A detailed list of learning objectives for each unit
- Unit problem sets (with solutions)
- Collections of past exam questions (with solutions)

Learning Resources Available during On-campus Visit
- Access to the OSU library system and the OSU computer labs
- Office hours (TA and instructor)

Other Learning Resources Available
- The Bruice textbook and accompanying solutions manual with answers and problem-solving strategies
- The Mohrig textbook

Molecular Model Sets
Students will find the routine use of a molecular model set to be most helpful. The use of a molecular model set during the examinations is permitted.

Services for Students with Disabilities
Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 541-737-4098.

The FAQ Folder on Blackboard
You are invited to visit the FAQ folder daily during weeks 1, 2, 5 and 6 to “hear” the questions of fellow students and view my posted comments.

Instructor emails to the class
Since it may be necessary for me to supplement an announcement on Blackboard with an email to the class I would ask that you check your ONID email account daily.
PART II ◊ Grading information

Lab Safety Test
Lab safety rules will be discussed on Monday July 8, the first day of the on-campus visit. At that time students will be provided with a take home lab safety test which will be due at 9 am on Tuesday July 9. Lab safety rules are provided in this document.

Arriving Late to Lab
Students arriving more than ten minutes late to lab will not be permitted to work in the lab. Being late for lab is equivalent to non-attendance (please see Assignments Eligibility Criteria section below).

Prelab Assignments
Prelab assignments will be inspected/graded at the start of each lab session and graded pass/no pass. Students arriving to lab without a complete prelab assignment will not be permitted to work in the lab. Failure to present a completed prelab assignment is equivalent to non-attendance (please see Assignments Eligibility Criteria section below). Please use the Assignment info tab on the course’s Blackboard site to access guidelines on the preparation of prelab assignments.

All questions about prelab assignment grading must be emailed to the instructor by the end of the business day following the day the assignment is returned to the class as a whole. After that period of time, grades become permanent and will not be changed.

Lab Notebooks
Lab notebooks will be inspected/graded at the conclusion of each laboratory unit.

All questions about lab notebook grading must be emailed to the instructor by the end of the business day following the day the assignment is returned to the class as a whole. After that period of time, grades become permanent and will not be changed.

Assignments
Students will submit eight equally weighted assignments. The best seven assignment scores will count toward your final course grade. Please use the Assignments info tab on the course’s Blackboard site to access the corresponding documents.

- Assignment 1 will only be accepted at the start of the afternoon lecture session on TBA
- Assignment 2 will only be accepted at the start of the afternoon lecture session on TBA
- Assignment 3 will only be accepted at the start of the lab session on TBA
- Assignment 4 will only be accepted at the start of the lab session on TBA
- Assignment 5 will only be accepted at the start of the afternoon lecture session on TBA
- Assignment 6 will only be accepted at the start of the lab session on TBA
- Assignment 7 will only be accepted at the start of the lab session on TBA
- Assignment 8 is due on TBA

Assignment Eligibility Criteria
Certain assignments have strict eligibility criteria. Failure to attend and complete the laboratory unit(s) associated with assignment 1 renders one ineligible to submit this assignment. This will result in a grade of zero for assignment 1. The same provisions apply to assignments 2, 3, 5, 6 and 7.

All questions about assignment grading must be emailed to the instructor by the end of the business day following the day the assignment is returned to the class as a whole. After that period of time, grades become permanent and will not be changed.

Formal Lab Report
Students will submit a formal lab report for Unit 5. It is due at the start of the morning lab session on Friday July 19. Please use the Assignments info tab on the course’s Blackboard site to access pertinent information about the Unit 5 formal report.

All questions about formal report grading must be emailed to the instructor by the end of the business day following the day the assignment is returned to the class as a whole. After that period of time, grades become permanent and will not be changed.

Examinations
Students will take a 110 minute, proctored midterm exam on Thursday July 18 from 15:00 to 16:50 pm in room KEC 1001 on the OSU campus. Please use the Exams info tab on the course’s Blackboard site to access further details about the midterm exam.

All questions about midterm exam grading must be emailed to the instructor by the end of the business day following the day the midterm exam is returned to the class as a whole. After that period of time, grades become permanent and will not be changed.

Students will take a 110 minute, proctored final exam. The final examination must be administered during the time period running from 8:00 (Pacific Time) on Thursday August 1 2013 to 17:00 pm (Pacific Time) on Saturday August 3 2013. Please use the Exams info tab on the course’s Blackboard site to access further details about the final exam.
Failure to appear for the midterm examination at its officially scheduled day/time/location results in a grade of zero. Chemistry 337 does not have “makeup” midterm examinations. Instances where participation in an officially sanctioned University activity or illness prevents a student from attending the midterm examination at its officially scheduled day/time/location will be accommodated provided the student furnishes the appropriate documentation. In such instances the student’s final examination percent grade is used to calculate the points for the missed midterm examination.

Failure to appear for the final examination at its officially scheduled day/time/location results in a grade of zero. Instances where participation in an officially sanctioned University activity or illness prevents a student from attending the final examination at its officially scheduled day/time/location will be accommodated provided the student furnishes the appropriate documentation. In such instances the student may request an incomplete (I) grade (see below). If a student misses the final examination without notification and approval acceptable to the instructor, the student will receive a grade of zero for the final examination and the instructor will report the course grade that is appropriate for the requirements of the course.

Grading

<table>
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<th>Category</th>
<th>Percentage</th>
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<tr>
<td>Satisfactory lab safety test</td>
<td>0.5%</td>
</tr>
<tr>
<td>Prelab assignments (inspected/graded daily; graded pass/no pass)</td>
<td>1%</td>
</tr>
<tr>
<td>Lab notebook (inspected/graded daily; graded pass/no pass)</td>
<td>2%</td>
</tr>
<tr>
<td>Satisfactory formal report for Unit 5</td>
<td>4.5%</td>
</tr>
<tr>
<td>Unsatisfactory formal report for Unit 5</td>
<td>0%</td>
</tr>
<tr>
<td>Assignments (best 7 of 8)</td>
<td>42%</td>
</tr>
<tr>
<td>Midterm Examination (Units 1, 2, 3, 4, 11 and 12)</td>
<td>25%</td>
</tr>
<tr>
<td>Final Examination (Units 1 to 14)</td>
<td>25%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
</tr>
</tbody>
</table>

Approximate cutoffs for grades: A (90%), A- (86.7%), B+ (83.4%), B (80%), B- (76.7%), C+ (73.4%), C (70%), C- (66.7%), D+ (63.4%), D (60%), D- (56.7%), F (<56.7%)

Accuracy of assignment (1 to 7), Unit 5 formal report and midterm exam grades posted on Blackboard
All questions about the accuracy of posted grades for assignments 1 to 7, the Unit 5 formal report and the midterm exam must be emailed to the instructor by 17:00 Pacific Time on Friday July 19. The instructor reserves the right to correct clerical grade errors on Blackboard.

Accuracy of prelab assignment and lab notebook grades posted on Blackboard
All questions about the accuracy of posted grades for prelab assignments and lab notebooks must be emailed to the instructor by 17:00 Pacific Time on Friday July 19. The instructor reserves the right to correct clerical grade errors on Blackboard.

Accuracy of assignment 8 grades posted on Blackboard
All questions about the accuracy of posted grades for assignment 8 must be emailed to the instructor by 17:00 Pacific Time on Monday July 29. The instructor reserves the right to correct clerical grade errors on Blackboard.

Accuracy of final exam grades posted on Blackboard
All questions about the accuracy of posted grades for the final exam must be emailed to the instructor by 17:00 Pacific Time on Thursday August 8. The instructor reserves the right to correct clerical grade errors on Blackboard.

Incomplete (I) Grades
Requests for incomplete (I) grades are evaluated within the framework of academic regulation AR 17 which states in part...
"When a requirement of a course has not been completed for reasons acceptable to the instructor and the rest of the academic work is passing, a report of I (incomplete) may be made and additional time granted." I (incomplete) grades are only assigned in limited cases. Should you experience a death in the family, a major illness or injury, a call to a military commitment, or similar situation, please advise Dr. Juniku at your earliest convenience.
Academic Dishonesty

Academic dishonesty is defined as an intentional act of deception in which a student seeks to claim credit for the work or effort of another person or uses unauthorized materials or fabricated information in any academic work. It includes "cheating" (intentional use or attempted use of unauthorized materials, information, or study aid), "fabrication" (intentional falsification or invention of any information), "assisting in dishonesty" (intentionally or knowingly helping or attempting to help another commit an act of dishonesty), "tampering" (altering or interfering with evaluation instruments and documents), and "plagiarism" (intentionally or knowingly representing the words or ideas of another person as one's own). The Department of Chemistry follows the university policies on student conduct. Cheating or plagiarism by students is subject to the disciplinary process outlined in the Student Conduct Regulations.

PART III ◊ Content information

Course content (laboratory component)

Unit 1 Isolation of trimyristin from nutmeg
Unit 2 Synthesis of salicylic acid
Unit 3 Simple distillation of a methanol/water mixture
Unit 4 Fractional distillation of a methanol/water mixture
Unit 5 Synthesis of E,E-dibenzalacetone (E,E-DBA)
Unit 6 Synthesis of benzoic acid
Unit 7 Isolation of lactose from nonfat milk
Unit 8 Isolation of green leaf pigments from spinach
Unit 9 Dehydration of 2-butanol
Unit 10 Dehydrohalogenation of 2-bromobutane

Course content (special topics component)

Unit 11 Chemistry at the α-carbon of aldehydes, ketones and esters
Unit 12 Amines and amides
Unit 13 Amino acids, peptides and proteins
Unit 14 Radical chemistry

PART IV ◊ Materials to bring to the on-campus visit

The Bruice (Wade or McMurry) textbook and study guide/solutions manual
The Mohrig, Hammond and Schatz lab textbook
A molecular model set
Printouts of Units 1 to 10
Completed "A few important questions" segments of Units 2, 3, 6 and 9
Printouts of Units 11 to 14
A 100 page spiral bound notebook with prelab assignments already completed for Units 1 to 10 (please use the Assignment info tab on the course’s Blackboard site to access guidelines on the preparation of prelab assignments)

PART V ◊ OSU and departmental policies

The goal of Oregon State University is to provide students with the knowledge, skill and wisdom they need to contribute to society. Our rules are formulated to guarantee each student's freedom to learn and to protect the fundamental rights of others. People must treat each other with dignity and respect in order for scholarship to thrive. Behaviors that are disruptive to teaching and learning will not be tolerated, and will be referred to the Student Conduct Program for disciplinary action. Behaviors that create a hostile, offensive or intimidating environment based on gender, race, ethnicity, color, religion, age, disability, marital status or sexual orientation will be referred to the Affirmative Action Office.

Students with documented disabilities who may need accommodations, who have any emergency medical information the instructor should know, or who need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible. Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 541-737-4098.

Each student must wear safety goggles at all times while working in the lab (GBAD 409) and instrument rooms. Goggles must be worn as you enter the lab. They may not be removed until you have left the lab at the end of the day’s work. Since “loaner” goggles will not be available, each student must bring their own goggles. Students arriving to lab without goggles will not be permitted to enter the lab and a grade of zero will be assigned for the prelab assignment and laboratory report related to the missed lab session.
Students arriving more than ten minutes late to lab will not be permitted to work in the lab and a grade of zero will be assigned for the prelab assignment and laboratory report related to the missed lab session. Failure to attend a scheduled lab session will result in a grade of zero for the prelab assignment and laboratory report related to the missed lab session. Instances, where the observance of a religious holiday, participation in an officially sanctioned University activity, illness or a compassionate situation prevents a student from attending a laboratory session, will be accommodated provided the student furnishes the appropriate documentation.

Certain medical conditions may limit your full participation in the experimental components of this class. Students with conditions that could be negatively influenced by exposure to any of the materials used in the class should contact the instructor as soon as possible to discuss their options. Appropriate accommodations will be made on an individual case by case basis and where deemed necessary, in consultation with a health care provider.

**PART VI ◇ Departmental safety rules**

Before you begin any work in the laboratory, you must read, understand and agree to abide by the following rules. Your instructor will explain these rules to you and demonstrate proper techniques and first-aid measures. If you do not understand a rule, insist on a satisfactory explanation from your instructor. During lab checkin your TA will show the locations of the fire extinguishers, eye wash stations, spray showers, fire blankets and exits.

**Cell phones are not to be used in the laboratory.** If you need to make a phone call please step outside the laboratory. **Food or beverages (even bottled water) are not to be consumed in the laboratory.** A drinking fountain is located at the main laboratory entrance. **Horseplay and pranks are not allowed in the laboratory.** Failure to comply will result in expulsion from the laboratory.

**General Conditions**
1. **Do not work in the laboratory unless your instructor is present to supervise your work.** A qualified person must be present to (1) see that only safe procedures are used, and (2) provide immediate aid in case of an accident.
2. **Do not carry out any unauthorized experiment.** Perform only those experimental steps in the printed manual, or those given directly to you by your instructor.
3. **Do not work under any condition that you believe to be unsafe for you or others.** If such a condition exists (e.g., overcrowded area, unsafe actions by another student), report it immediately to your instructor or to a faculty member in charge.

**Eye Protection**
4. **Wear approved eye protection at all times in the laboratory.** Approved eye protection means safety goggles with indirect venting sold at the Issue Room. This is a specific State of Oregon requirement. Failure to comply will result in exclusion from the laboratory. Eyes are very susceptible to chemical injury and must be fully protected at all times. Even when you are not working, a person nearby may be carrying out a chemical procedure that might affect you.
5. **Contact lenses should not be worn in the laboratory.** All types of contact lenses may trap a chemical against the eye tissue and cause permanent eye damage. Check with your instructor if needed.
6. **Do not work with a chemical above or near your face.** For example, holding a beaker up to look at what is in the bottom, or filling a burette which is higher than eye-level, can result in a splash down onto your face.

**Handling Chemicals**
7. **Many chemicals are toxic and/or corrosive.** Do not assume that any chemical reagent is safe and that it does not require careful handling.
8. **Do not taste or ingest any chemical in the laboratory. Do not keep food or drink items at your lab bench.** It may be toxic. Even NaCl may be contaminated and be unsafe. For the same reason, you can not bring food or drink into the laboratory, or eat in the laboratory (no chewing gum, tobacco, candy, bottled water or drinks, etc.)
9. **Never pipette by mouth.** Drawing up a liquid (e.g., into a pipette) should be done only with a rubber bulb or water aspirator.
10. **Never pipette directly from a reagent bottle.** Transfer only necessary amount of liquid reagents to a secondary container, such as a clean, dry beaker.
11. **Avoid skin contact with any chemical.** Keep the outside of reagent containers, all of your equipment, and the desk top free from chemical spills. Wear gloves if instructed to do so.
12. **Do not inhale reagent fumes.** Odor tests are to be made only when specifically directed to do so. Use a waving motion of your hand to bring the vapor near your nose (this is wafting).
13. **Fume hoods must be used whenever toxic or corrosive vapors are released during the work you are doing.** Use the hood when directed to do so. If fumes develop unexpectedly, cover the container and take it to the hood at once. Work with concentrated hydrochloric, nitric, or acetic acids, or with bromine, chlorine, or hydrogen sulfide should be done only under a fume hood.
14. **Alkalis are particularly corrosive. Contact with NaOH and other alkaline (basic) chemicals must be avoided. Work with solid sodium or potassium hydroxide, or with solutions of these more concentrated than 0.1 molar, should be carried out only under the direct supervision of the instructor.** Strong bases must be handled with great caution.
Chemical Waste Disposal

Clothing in the Lab

21. Learn the basic laboratory first-aid measures. These should be demonstrated by the instructor.

22. In Case of Accident

a. If a chemical splashes into your eye, get help immediately. Shout out, "I have chemical in my eye!"

b. If someone nearby gets a chemical in his/her eye, you should: (1) shout for help from the instructor, (2) provide help if the instructor is not there immediately. A person who has just gotten a chemical in his/her eye usually is frightened, confused and may be unable to help himself/herself.

c. Wash the eye thoroughly with a stream of water from the eye wash fountain, or any other water source.

23. Any chemical that comes in contact with your skin should be washed off with water right away. This is especially important for concentrated reagents and organic liquids.

24. Know the location of fire extinguishers, fire blankets, and safety showers in case of fire. Keep acetone and any other organic liquid at least ten feet from an open flame. Use a wet towel to extinguish a small fire or the fire blanket if a person's clothes catch fire.

25. Proceed cautiously when handling hot objects. Use a towel as a hot pad when handling hot objects. Hot glass looks just like cold glass. In case of burn, immerse in water immediately. Notify your instructor. Apply clean moist cloth or bandage. Seek medical attention if any question about treatment.

26. Know the evacuation sirens and exit route from your lab. When the fire alarm sounds, stop what you are doing and immediately exit the lab, go down the stairs and exit the building. Wait outside for instructions.

27. Immediately report any accident to your instructor no matter how minor it may seem to you. Cuts, burns, chemical burns, and inhalation or ingestion of chemicals should be treated as soon as possible by a professional medical person. Neither students nor chemistry staff are qualified to make medical decisions.

28. You are advised to have private health insurance. In the case of very minor cuts or burns, an instructor or staff member may escort you to the Student Health Center for treatment, however, in case of an accident, if there is any question, the emergency response team will be called (9-911.)

Clothing in the Lab

29. You must be covered continuously from shoulders to feet and must wear shoes that cover your feet. Bare feet, sandals, shorts, sleeveless shirts, short shirts, and short skirts are UNSAFE and should not be worn to laboratory. For fire safety, flammable materials, loose clothes, ties should not be worn, and long hair should be tied back. Full coverage by (cotton) clothing and leather shoes offers the best protection against chemical spills and fire. Older clothing is advised, as is the use of lab coats or aprons.

Chemical Waste Disposal

30. Only neutral aqueous solutions go down the sink drain. Waste determinations and disposal are done by faculty and staff. Check with your instructor before disposing of any chemical. All chemical waste is to be sorted into the
appropriate waste container and the identity and amount must be logged onto the accompanying inventory sheet. Check with your instructor for specific details.

Leaving Laboratory
32. *Clean your work bench with a damp sponge. Neutralize all acid spills with sodium bicarbonate and wash with a wet sponge. Shut gas jets completely. Wash your hands.* Leave the area safe for the next person.
33. *Do not take any chemical out of the laboratory for any reason. It is illegal!* You may be liable if another person is injured by a chemical (or unauthorized equipment) that you remove from the laboratory.

PART VII ◊ Student assistance

Contacting the Instructor
In accord with university policy email inquiries must be sent from your ONID email address. Please limit email to text only (no attachments). For your convenience you may email me directly from the course’s Blackboard site using the Email Dr. Juniku tab (Blackboard will send a copy of your email to your ONID email address).

Before sending your inquiry please use the FAQ tab on the course’s Blackboard site as another student may have already raised a question about the topic you’re interested in (I typically post paraphrased versions of students’ questions along with a set of prepared comments). If this is the case please review my posted comments. If you still have questions, or if you are the first student to raise a question on a particular topic, please drop me an email. I will check email daily and will respond to course-related questions within two business days.

For technical assistance with your ONID email account please see the Ecampus Technical Help website.

Technical Assistance
If you experience computer difficulties, need help downloading a browser or plug-in, assistance logging into the course, or if you experience any errors or problems while in your online course, please contact the OSU Computer Helpdesk for assistance. You may contact them by telephone at 541.737.3474, by email at osuhelpdesk@oregonstate.edu or through their website OSU Computer Helpdesk.

Welcome to the Oregon State University community.