



Ecampus SAMPLE SYLLABUS

NOTE to prospective students: This syllabus is intended to provide students who are considering taking this course an idea of what they will be learning. A more detailed syllabus will be available on the course site for enrolled students and may be more current than this sample syllabus.

CH 140: General Chemistry

CH 140. GENERAL, ORGANIC, AND BIOLOGICAL CHEMISTRY (6).

An introduction to general, organic, and biological chemistry. Intended as a terminal course in chemistry, not to serve as a prerequisite to higher numbered chemistry courses. Offered via Ecampus only. **PREREQS:** Entering students are expected to have a working knowledge of high school algebra, logarithms, and scientific notation.

This course combines approximately 180 hours of instruction, online activities, and assignments for 6 credits.

In this course, students will acquire a fundamental understanding of chemical reactions and scientific measurements, and become familiar with the principles, laws, and equations governing our understanding of chemical combination. Each student will be able to competently discuss concepts and solve problems relating to: general chemistry, organic chemistry, and biochemistry.

Course Outline:

Text Chapter	Topic
1	Chemistry and Measurements
2	Energy and Matter
3	Atoms and Elements
4	Nuclear Chemistry
5	Compounds and Their Bonds
6	Chemical Reactions and Quantities
7	Gases
8	Solutions
9	Reaction Rates and Chemical Equilibrium
10	Acids and Bases
11	Introduction to Organic Chemistry: Alkanes
12	Alkenes, Alkynes, and Aromatic Compounds
13	Alcohols, Phenols, Thiols, and Ethers
14	Aldehydes, Ketones, and Chiral Molecules
15	Carbohydrates
16	Carboxylic Acids and Esters
17	Lipids

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18	Amines and Amides
19	Amino Acids and Proteins
20	Enzymes and Vitamins
21	Nucleic Acids and Protein Synthesis
22	Metabolic Pathways for Carbohydrates
23	Metabolism and Energy Production

CH 140 Grade Sheet:

You might want to print out these pages to help you keep track of your class requirements. All times listed are for the Pacific Time zone. If you are in a different time zone, please be sure you've adjusted accordingly. If not otherwise specified, all items are due by 5 PM Pacific Time.

Action Item	Time/Date	Points	Your Score
Exams			
Midterm Exam	Week 6, between Sunday at 12:01am and Monday at 11:59pm (Pacific Time).	120	
Final Exam	Week 11, between Sunday at 12:01am and Monday at 11:59pm (Pacific Time).	240 or 360	
Homework			
Introduction to Mastering Chemistry	Friday, Week 1, 5pm	5	
Chapter 1 Homework	Friday, Week 10, 5pm	5	
Chapter 2 Homework	Friday, Week 10, 5pm	5	
Chapter 3 Homework	Friday, Week 10, 5pm	5	
Chapter 4 Homework	Friday, Week 10, 5pm	5	
Chapter 5 Homework	Friday, Week 10, 5pm	5	
Chapter 6 Homework	Friday, Week 10, 5pm	5	
Chapter 7 Homework	Friday, Week 10, 5pm	5	
Chapter 8 Homework	Friday, Week 10, 5pm	5	
Chapter 9 Homework	Friday, Week 10, 5pm	5	
Chapter 10 Homework	Friday, Week 10, 5pm	5	
Chapter 11 Homework	Friday, Week 10, 5pm	5	
Chapter 12 Homework	Friday, Week 10, 5pm	5	
Chapter 13 Homework	Friday, Week 10, 5pm	5	
Chapter 14 Homework	Friday, Week 10, 5pm	5	
Chapter 15 Homework	Friday, Week 10, 5pm	5	
Chapter 16 Homework	Friday, Week 10, 5pm	5	
Chapter 17 Homework	Friday, Week 10, 5pm	5	
Chapter 18 Homework	Friday, Week 10, 5pm	5	
Chapter 19 Homework	Friday, Week 10, 5pm	5	
Chapter 20 Homework	Friday, Week 10, 5pm	5	
Chapter 21 Homework	Friday, Week 10, 5pm	5	
Chapter 22 Homework	Friday, Week 10, 5pm	5	
Chapter 23 Homework	Friday, Week 10, 5pm	5	
Labs			
01-Lab Techniques	Friday, Week 1, 5pm	5	

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02-Calorimetry of Foods	Friday, Week 10, 5pm	10	
03-Vitamin C	Friday, Week 10, 5pm	10	
04-Synthesis and TLC	Friday, Week 10, 5pm	10	
05-Metals + HCl	Friday, Week 10, 5pm	10	
06-Titration I	Friday, Week 10, 5pm	10	
07-Qual Scheme I-Functional Grps	Friday, Week 10, 5pm	10	
08-Qual Scheme II-Carbs	Friday, Week 10, 5pm	10	
09-DNA Hydrolysis	Friday, Week 10, 5pm	10	
10-GC-MS	Friday, Week 10, 5pm	10	
Quizzes			
Introductory Quiz	Friday, Week 1, 5pm	5	
Unit 1 Quiz	Friday, Week 10, 5pm	10	
Unit 2 Quiz	Friday, Week 10, 5pm	10	
Unit 3 Quiz	Friday, Week 10, 5pm	10	
Unit 4 Quiz	Friday, Week 10, 5pm	10	
Unit 5 Quiz	Friday, Week 10, 5pm	10	
Unit 6 Quiz	Friday, Week 10, 5pm	10	
Unit 7 Quiz	Friday, Week 10, 5pm	10	
Unit 8 Quiz	Friday, Week 10, 5pm	10	
Unit 9 Quiz	Friday, Week 10, 5pm	10	
Unit 10 Quiz	Friday, Week 10, 5pm	10	
Final Score			
		680	

If you do better on the final (as a percentage score) than on the midterm exam, only the percentage score for the final will be counted. In this case, it will be scaled to a score of 360 points for your "Exams" score. This scoring method rewards improved performance; it will happen automatically without any action from you.

Suggested Timeline / Topic Schedule

<u>Week</u>	<u>Units (Unit Study Guides in Blackboard)</u>
1	1 (Chapters 1-3)
2	2 (Chapters 4-6)
3	3 (Chapters 7-9)
4	4 (Chapters 10-11)
5	5 (Chapters 12-13)
Exam 1	
6	6 (Chapters 14-15)
7	7 (Chapters 16-17)
8	8 (Chapters 18-19)
9	9 (Chapters 20-21)
10	10 (Chapters 22-23)
Final Exam	

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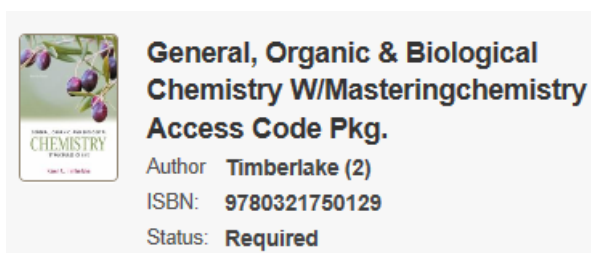
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Course Components:

- Text



- If you choose to purchase the book from a source other than the OSU Bookstore, please be sure that you are buying a copy that includes a valid code for Mastering Chemistry. If you do not, you will have to purchase Mastering Chemistry access separately. If you need to purchase Mastering Chemistry access, please contact the instructor *before* doing so, to ensure you purchase the code for the correct book.
- **NOTE: For textbook accuracy, please always check the textbook list at the [OSU Bookstore website](#). Sample syllabi may not have the most up-to-date information.**
- Homework
 - Located at masteringchemistry.com
 - Due dates are listed both on the Mastering Chemistry site, and on the grade sheet above. While late assignments are not accepted, any work within the chapter will be scored.
- Online labs
 - Located at <http://www.onlinechemlabs.com>
 - Labs are an integral part of the course, and are graded.
 - There are 10 labs (1 introductory and 9 core labs) associated with CH140. The introductory lab (Lab 1) will be graded on completeness. For a lab to be considered complete, a *genuine attempt* must have been made at all of the questions. Answers such as “I don’t know” or strings of characters are not sufficient to for a lab to be considered complete.
 - You must complete lab 1 *even if you completed it in a previous term*.
 - The core labs will be graded on a combination of completeness, correctness in numerical answers, and correctness in short essay answers. If you don’t understand something in the lab, it is strongly recommended that you contact the Instructor for assistance *well before* the due date.

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- To earn a passing grade in CH140 you must pass the laboratory portion of the course. A minimum grade of 60% must be earned in labs. This is departmental policy, and no exceptions will be made.
- While late labs are not accepted, any work within the lab will be scored.
- Study aids (study guides, video, practice exams)
 - *Study guides* break down each chapter into sections, and are intended to help you group the different course components together in a coherent fashion. Study guides include a checklist of items to do while studying a particular portion of the test, provide questions to think about during study of the material to help focus on important topics, and suggest problems from the book to work through for practice.
 - *Video modules* provide short video tutorials or demos on numerous topics. We cannot anticipate or solve all technical access issues, as local computer configurations and internet access vary greatly. If you have trouble viewing the videos, here are a few tips that may help:
 - Some video files are large, so allow sufficient time for downloads to complete (a single file could take several minutes).
 - Paste the video page link directly in your browser address bar, rather than opening the access page inside of the Blackboard window.
 - Be sure that you have upgraded to the most recent version of the browser software you are using.
 - *Practice midterm and final exams* will be posted on Blackboard. These provide excellent practice, and we strongly recommend that you take some practice exams under test conditions before attempting your exams.
 - Study aids (study guides, video modules, and practice exams) are important tools to help you understand the material in the course, but will not be collected or graded.
- Quizzes
 - Quizzes are assigned and graded.
 - The Introductory Quiz is located in the site. Unit Quizzes are located in the site.
 - Quizzes for each unit consist of ten questions and are graded based on correctness. You have one attempt at each quiz, so please be sure that you're prepared to take each quiz before you open it.
 - Quizzes will become unavailable after the due date. Please see the grade sheet above for due dates.

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- It is strongly recommended that you record your calculations for the quiz questions, and be sure that you understand *how* to arrive at the correct answer for each quiz question.
- Midterm Exam
 - The midterm exam *requires a proctor*. Your proctor must be registered with ECampus; you should set this up as soon as possible, or you will not be able to take your exam. Your professor cannot do this for you. Information about acceptable proctors and a proctor registration form can be found at: <http://ecampus.oregonstate.edu/services/proctoring/>
 - The midterm exam **must** be taken in the exam window.
 - The midterm exam *cannot be retaken*, and *cannot be stopped once started*.
 - The midterm exam consists multiple-choice questions. It must be completed within 80 minutes. A missed exam will receive a score of zero.
 - Authorized exam materials:
 - A calculator (cell phone-based calculators will *not* be allowed)
 - A printed exam cover sheet is in the site. This includes a periodic table.
 - Blank scratch paper, pens and/or pencil
 - One 3" by 5" card with handwritten or typed notes on one side only
 - The use of unauthorized exam materials is a violation of the OSU's Academic Dishonesty policy. **Evidence of academic dishonesty in an OSU course may result in a grade of "F" on the examination/assignment that involved cheating and/or an "F" in the course.**
- Final
 - The final exam *requires a proctor*. Your proctor must be registered with ECampus; you should set this up as soon as possible, or you will not be able to take your final. Your professor cannot do this for you. Information about acceptable proctors and a proctor registration form can be found at: <http://ecampus.oregonstate.edu/services/proctoring/>
 - The final exam **must** be taken in the exam window.
 - The final exam is cumulative, consists of multiple-choice questions. It will be weighted more heavily toward material covered after the midterm. You will have 1 hour and 50 minutes (110 minutes) to take the exam. A missed exam will receive a score of zero.
 - Authorized exam materials:
 - A calculator (cell phone-based calculators will *not* be allowed)
 - A printed exam cover sheet is in the site. This includes a periodic table.

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- Blank scratch paper, pens and/or pencil
- One 3" by 5" card with handwritten or typed notes on both sides
- The use of unauthorized exam materials is a violation of the OSU's Academic Dishonesty policy. **Evidence of academic dishonesty in an OSU course may result in a grade of "F" on the examination/assignment that involved cheating and/or an "F" in the course.**
- Exam scores can be viewed shortly after completion by clicking "My Grades" in the *Course Tools* section of the class website.
- If you do better on the final (as a percentage score) than on the midterm exam, only the percentage score for the final will be counted. In this case, it will be scaled to the total "Exams" score. This scoring method rewards improved performance; it will happen automatically without any action from you.

Grading :

Success in this course often depends on the amount of time devoted to studying the material. This is a 6-credit course, and each credit is meant to reflect about 30 hours of effort over the course of the term (this works out to ~18 hours a week in this ten-week term). We recommend that you prepare to devote ample time to the study of this course while it is in progress. Good luck!

- Your point total is obtained by adding points from the exams, online homework, quizzes, and labs. These component point totals are indicated in the following table:

Component	Points
Midterm Exam	120
Final	240 or 360
Homework	120
Quizzes	105
Labs	95
Total	680

Remember that the midterm may be counted or not, depending on your final exam score.

- Your course grade is determined entirely from the total number of points accumulated. The following table provides the minimum number of points required to earn specific letter grades.

Grade	Points
A	625
A-	605
B+	584
B	557
B-	537

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C+	516
C	489
C-	469
D+	448
D	421
D-	408
F	0

Contact Information:

OSU Chemistry Faculty: Dr. Richard Nafshun richard.nafshun@oregonstate.edu

Incompletes and Withdrawals:

- No incomplete grades are awarded in this course.
- No Late Withdrawals are awarded in this course.
- Please note the deadlines for dropping courses and for course withdrawals (see <http://catalog.oregonstate.edu/ChapterDetail.aspx?Key=148>).
- The instructors and TAs are willing and eager to help you succeed in this course, and can also discuss your likely grade outcomes and options during the appropriate time window. Since enrollment space is limited, and course materials and assistance are available to all students throughout the term, late requests for drops or withdrawals will not be approved.

Accommodations for Students with Disabilities:

Accommodations are a collaborative effort 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 have not yet obtained approval through DAS should contact DAS immediately at 737-4098.

Academic Conduct:

For more information about academic integrity and the University's policies and procedures in this area, please refer to the Student Conduct website at:

<http://studentlife.oregonstate.edu/studentconduct/academic-dishonesty>

This syllabus is subject to change with notice. Please bring any errors to the instructor's attention.

REFUND POLICY INFORMATION

Please see the [Ecampus website](#) for policy information on refunds and late fees.

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