

CH 123 - GENERAL CHEMISTRY

Summer 2021 Syllabus, Section 400

Instructor

Dr. Richard Nafshun

richard.nafshun@oregonstate.edu

Teaching Assistants

TBA

CH123Ecampus@oregonstate.edu

Communication

Please post all course-related questions in the Discussion Board so that the whole class may benefit from our conversation. If you don't wish to post to the class, please send your question to the Instructor/TA email list at the address above. If you have a question about something other than course content, please email me directly. We will reply to course-related questions and email messages within two days. We will strive to return your assignments and grades for course activities to you within five days of the due date.

Course Description

A general chemistry sequence intended for majors in fields other than the physical sciences. (CH 122 and CH 123 are Bacc Core courses.) Lec/rec/ lab.

This course fulfills the Baccalaureate Core requirement for the Physical Science category. It does this by exploring the chemical concepts of atomic structure and molecular-level interaction to explain macroscopic behavior and having students perform experiments that require the collection and analysis of data. Additionally, the connections between chemistry and areas such as physiology, botany, and cell biology will be examined. The Baccalaureate Core Student Learning Outcomes for a Physical Science Lab course are listed in the Course Learning Outcomes section below (LOs #2-4).

Prerequisites

CH 122 or (CH 202 or (CH 232 or 232H)). A minimum grade of C- is required in CH 122, CH 202, CH 232, and CH 232H.

Course Credits

This course combines approximately 150 hours of instruction, online activities, and assignments for 5 credits.

Technical Assistance

Technical issues are not considered a valid reason for missing due dates/times. If you do have technical issues, please report the issue to both the relevant site's technical support and to the instructor as soon as possible. Please be as specific as possible when describing the issue, including the text of any error messages and screen captures when appropriate.

If you experience any errors or problems while in your online course on Canvas, contact 24-7 Canvas Support through the Help link within Canvas. If you experience computer difficulties or need help downloading a browser or plug-in contact the [IS Service Desk](#) for assistance.

If you have any technical issues with the lab site for the course, please use the help link at the

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bottom of the lab screen.

If you have any technical issues with the homework site for the course, please contact

[Chem101](#)

Course Learning Outcomes

- Competently discuss concepts and solve problems relating to: acids and bases, buffers, titration, solubility, thermodynamics, electrochemistry, and nuclear chemistry.
- Recognize and apply concepts and theories of basic physical or biological sciences.
- Apply scientific methodology and demonstrate the ability to draw conclusions based on observation, analysis, and synthesis.
- Demonstrate connections with other subject areas.

Course Materials

- Textbook: OpenStax Chemistry: Atoms First The textbook can be accessed for free at <https://openstax.org/details/books/chemistry-atoms-first>
- Scientific Calculator
- Computer with working webcam and microphone
- Small whiteboard with markers
- Access code for Chem101

Course Expectations

Grading

Success in this course often depends on the amount of time devoted to studying the material. This is a 5-credit course, and each credit is meant to reflect about 30 hours of effort over the course of the term (this works out to ~50 hours per week in a 3-week term or ~15 hours per week in a 10-week term). We recommend that you prepare to devote ample time to the study of the course while it is in progress

Your point total is obtained by adding points from the unit assessments, online homework, quizzes, and labs. These component point totals are indicated below:

Unit Assessments: 300 points

Homework: 100 points

Quizzes: 110 points

Labs: 65 points

Total: 575 points

Grading Scale

| | |
|---------|-------------|
| A/A- | 92%/90% |
| B+/B/B- | 87%/83%/80% |
| C+/C/C- | 77%/73%/70% |
| D+/D/D- | 67%/63%/60% |
| F | <60% |

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Completion of Work

- Students are expected to be aware of all due dates as published in this syllabus, and complete work in a timely fashion. Late assessments are not accepted.
- Students are expected to complete their own work as described in each portion of the 'Course Components' section of this syllabus.
- Students must not attempt to mask their location in completion of coursework. As such, students may not access the course website(s) through a VPN when completing any assessed course work without express instructor permission. Accessing any assessed course work using a VPN may result in a score of zero on that coursework and a report to Student Conduct and Community Standards as an incidence of academic dishonesty.

Communications

- Students are encouraged to communicate with the instructors and teaching assistants as often as questions on the material arise. Please review the Email Guidelines for this course.
- Students are expected to regularly check email for communications from their instructors. Students should check their OSU email account daily, or configure their account to forward to an email account that will be regularly checked.
- Course announcements will be posted regularly. Students should either configure Canvas to receive ASAP (or daily) notification of new announcements, or should plan on checking the announcements for the course early each week.

Technical Aspects

- As an online course, it is the student's responsibility to have access to adequate computing resources to utilize course materials and complete course work.
- Multiple websites are used in completion of course materials. These sites may require students to download (free) plug-ins or otherwise configure their computer in order to function. Students should plan on accessing and configuring these sites as early as possible to allow time to seek technical support if necessary.
- Technical issues are not considered a valid reason for missing due dates/times. If you do have technical issues, please report the issue to both the relevant site's technical support and to the instructor as soon as possible. Please be as specific as possible when describing the issue, including the text of any error messages and screen captures when appropriate.

Incompletes

Incomplete (I) grades are rare and will be granted only in emergency cases. Incompletes can only be granted to students who are passing the course at the time the incomplete is granted, so if you have a circumstance that has arisen that might prevent you from completing the coursework, please don't wait; let us know right away so that we can discuss the options available to you.

Course Components

Homework

- Homework will be completed via Chem101. Access to the homework site is through the course Canvas site. Instructions for registration and details about how homework grades appear in Canvas are provided in the Start Here module on the 'Start Here - Homework

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Information' page.

- Students are expected to do their own work on homework assignments. Students are allowed and encouraged to seek assistance in understanding how to approach and/or calculate the answers to homework problems. Students may not, however, obtain answers for the homework problems from other sources. Students who complete homework assignments using answers obtained from other sources will be reported to Student Conduct and face penalties on their assignments, as will any student who provided them with answers.

Online Labs

- Online Chem Labs will be accessed through the online Canvas site.
- There are seven labs associated with CH 123. These are graded as a combination of completeness and correctness. 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 for a lab to be considered complete.
- Students are expected to do their own work on laboratory assignments. Students are allowed and encouraged to seek assistance in understanding how to approach and/or calculate the answer to the questions on the labs. Students who complete laboratory assignments using answers obtained from other sources will be reported to Student Conduct and face penalties on their assignments, as will any student who provided them with answers.
- To earn a passing grade in CH 123, you must pass the laboratory portion of the course. In order to pass the laboratory portion of the course, 70% of the lab points must be earned. This is a departmental policy, and no exceptions will be made.

Quizzes

- The pre-assessment for the course is located in the Start Here module. The pre-assessment consists of questions on material throughout the course; credit is awarded based on completion. Since credit on the pre-quiz is based solely on completion, please answer the questions to the best of your ability without reading the material in advance or referring to any other materials.
- The Introductory Quiz is located in the Start Here module. The Introductory Quiz is based on information in this syllabus and in the Start Here module. Please review the feedback after each attempt for important information.
- Weekly Quizzes can be located in the weekly modules. Quizzes for each week are graded based on correctness. You have one attempt at each weekly 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.
- Your pre-assessment score, introductory quiz score and nine highest weekly quiz scores will be used to calculate your final grade.
- 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.
- Students are expected to do their own work on quizzes. Students may not obtain answers for the quiz questions from other sources. Students who complete quizzes using answer obtained from other sources will be reported to Student Conduct and face penalties on their quizzes, as will any student who provides another student with answers.

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Unit Assessments

- There will be five unit assessments in the course, each covering two weeks of material.
- Each unit assessment will be taken via Canvas and must be proctored. The proctoring for this course will be via Proctorio, a service that is free for students.
- To take the unit assessments, students will need to use a computer with a webcam, microphone, and reliable internet access.
- Each unit assessment must be taken during the time period specified previously on the Grade Sheet page of the syllabus.
- Each unit assessment cannot be retaken and cannot be stopped once started.
- Each unit assessment must be completed within 80 minutes. The assessment will autosubmit at the end of this 80-minute period.
- If a student has a conflict with the time window for any of the unit assessments, they need to contact the instructor as early as possible (in most cases, before the assessment window) to discuss.
- Your four highest unit assessment scores will be used to calculate your final grade.
- Provided materials: the following materials will be available for each assessment as a link within the assessment:
 - A periodic table
 - The equation sheet for that assessment - this will be published in advance of the assessment so that students can familiarize themselves with it.
- Allowed materials:
 - A scientific calculator (programmable calculators, graphing calculators, and cellphone-based calculators will not be allowed)
 - A dry erase board and dry erase markers
 - One 3-by-5 inch card with handwritten or typed notes on one side only.
 - Any use of materials not on this list (including accessing of outside websites or other online resources) will result in a non-replaceable score of 0 on the assessment, and will be reported to Student Conduct as an incident of academic dishonesty.
- For the duration of the assessment window, students may not communicate contents of the exam or exam answers to any other individual in any format. Students also may not receive such information prior to taking their exam. Any violations of this will be reported to Student Conduct and result in exam penalties.

Using Proctorio automated proctoring for unit assessments:

This course will use an automated online proctoring system called Proctorio, where your session is recorded for instructor review. You will **not** need to schedule proctoring appointments, and there is **no cost to you** to use Proctorio.

Please note that a functioning webcam and microphone are required for using Proctorio. If you do not have these, you will need to locate and submit an alternative proctor through the [exams and proctoring form](#) and pay for any associated proctoring fees.

Your security and privacy are important. You can read more about Proctorio's [privacy](#) and [data security](#) policies on their website, and more information about using this tool can be found in the course site.

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Expectations for Student Conduct

Student conduct is governed by the university's policies, as explained in the Student Conduct Code (<https://beav.es/codeofconduct>). Students are expected to conduct themselves in the course (e.g., on discussion boards, email postings) in compliance with the university's regulations regarding civility.

Guidelines for a Productive and Effective Online Classroom

Students are expected to conduct themselves in the course (e.g., on discussion boards, email) in compliance with the university's regulations regarding civility. Civility is an essential ingredient for academic discourse. All communications for this course should be conducted constructively, civilly, and respectfully. Differences in beliefs, opinions, and approaches are to be expected. In all you say and do for this course, be professional. Please review the discussion board guidelines posted in Canvas, and bring any communications you believe to be in violation of this class policy to the attention of your instructor.

Academic Integrity

Integrity is a character-driven commitment to honesty, doing what is right, and guiding others to do what is right. Oregon State University Ecampus students and faculty have a responsibility to act with integrity in all of our educational work, and that integrity enables this community of learners to interact in the spirit of trust, honesty, and fairness across the globe.

Academic misconduct, or violations of academic integrity, can fall into seven broad areas, including but not limited to: cheating; plagiarism; falsification; assisting; tampering; multiple submissions of work; and unauthorized recording and use.

It is important that you understand what student actions are defined as academic misconduct at Oregon State University. The OSU Libraries offer a tutorial on academic misconduct (<https://guides.library.oregonstate.edu/c.php?g=286121&p=3896378>), and you can also refer to the [OSU Student Code of Conduct \(https://beav.es/codeofconduct/\)](https://beav.es/codeofconduct/) and the [Office of Student Conduct and Community Standard's website \(https://studentlife.oregonstate.edu/studentconduct/student-info/\)](https://studentlife.oregonstate.edu/studentconduct/student-info/) for more information. More importantly, if you are unsure if something will violate our academic integrity policy, ask your professors, GTAs, academic advisors, or academic integrity officers.

Technical Assistance

If you experience any errors or problems while in your online course, contact 24-7 Canvas Support through the Help link within Canvas. If you experience computer difficulties, need help downloading a browser or plug-in, or need assistance logging into a course, contact the IS Service Desk for assistance. You can call (541) 737-8787 or visit the IS Service Desk (<https://oregonstate.teamdynamix.com/TDClient/1935/Portal/Requests/ServiceDet?ID=22911/>) online.

Inclusivity

In an ideal world, science would be objective. However, science is a human endeavor and is historically built on a small subset of privileged voices.

We acknowledge that it is possible that there may be both overt and covert biases in the

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material due to the lens with which it was written, even though the material is primarily of a scientific nature. Integrating a diverse set of experiences is important for a more comprehensive understanding of science. Please contact us if you have any suggestions to improve the quality of the course materials.

We (like many people) are still in the process of learning about diverse perspectives and identities. If something was said in class (by anyone) that made you feel uncomfortable, please talk to us about it. As a participant in course discussions, you should also strive to honor the diversity of your classmates. Furthermore, we would like to create a learning environment for our students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, etc..) To help accomplish this:

- Pronouns: If you have a name and/or set of pronouns that differ from those that appear in your official records, please let us know! You can also edit/set your pronouns in Canvas.
- Religious Observances: Please let your instructor know if the timing of an assignment interferes with any of your religious and/or spiritual practices so that we can make necessary arrangements.
- Statement of Accessibility: All students have the right to learn from and participate in the classroom. We designed this course with accessibility in mind, and are always open to hearing ways to make it more inclusive and accessible. Please contact your instructor if you have accessibility concerns.

Statement Regarding Students with Disabilities

Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval, please contact DAS immediately at 541-737-4098 or at <http://ds.oregonstate.edu>. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations.

Accessibility of course materials

All materials used in this course strive to be fully accessible. Since some materials and resources are provided by external vendors, the accessibility statements from those vendors is also provided. If you require accommodations, please contact Disability Access Services (DAS). Canvas, the learning management system through which this course is offered, provides a vendor statement certifying how the platform is accessible to students with disabilities. Please also review the accessibility statements from [OpenStax \(https://openstax.org/accessibility-statement/\)](https://openstax.org/accessibility-statement/), [Knewton Alta \(https://www.knewton.com/accessibility/\)](https://www.knewton.com/accessibility/), and [SmartSparrow \(https://www.smartsparrow.com/solutions/highered/\)](https://www.smartsparrow.com/solutions/highered/).

Ecampus Reach Out for Success

University students encounter setbacks from time to time. If you encounter difficulties and need assistance, it's important to reach out. Consider discussing the situation with an instructor or academic advisor. Learn about resources that assist with wellness and academic success.

Ecampus students are always encouraged to discuss issues that impact your academic success with the Ecampus Success Team. Email ecampus.success@oregonstate.edu to identify

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strategies and resources that can support you in your educational goals.

If you feel comfortable sharing how a hardship may impact your performance in this course, please reach out to me as your instructor.

For mental health

Learn about counseling and psychological resources for Ecampus students. If you are in immediate crisis, please contact the Crisis Text Line by texting OREGON to 741-741 or call the National Suicide Prevention Lifeline at 1-800-273-TALK (8255).

For financial hardship

Any student whose academic performance is impacted due to financial stress or the inability to afford groceries, housing, and other necessities for any reason is urged to contact the Director of Care for support (studentassistance@oregonstate.edu or 541-737-8748).

Basic Needs

Any student who has difficulty affording groceries or accessing sufficient food to eat every day, or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the Director of Care in the office of the Dean of Students for support (studentassistance@oregonstate.edu, 541-737-8748). There might also be a food pantry in your community to help. You can search by zipcode at [Feeding America](http://www.feedingamerica.org) (<http://www.feedingamerica.org>). You can find information about enrolling in SNAP (food stamps) in your state at the [USDA Food and Nutrition Service website](https://www.fns.usda.gov/snap/recipient/how-do-i-apply-for-benefits/) (<https://www.fns.usda.gov/snap/recipient/how-do-i-apply-for-benefits/>).

Your local librarian might be able to help you find a copy of some textbooks through interlibrary loan.

Furthermore, please notify the professor about your concerns if you are comfortable in doing so. This will enable them to provide any resources that they may possess.

Please Note

This syllabus is subject to change with notice from the instructor.