



CIS 210 – Computer Science I

Winter 2024 – CRN: 21582

SYLLABUS

General Course Information

| | |
|----------------------|---|
| Prerequisites | Math 112 is a prerequisite for this course – no exceptions. In addition, we expect students to have prior experience with a high-level programming language such as Python, C, C++, JavaScript, or Java. |
| Lecture | Tu, Th. 10:00 - 11:20 180 Prince Lucien Campbell Hall (PLC) https://map.uoregon.edu/db24342b9 https://classrooms.uoregon.edu/180plc |
| Labs | Linnea: T 16:00-16:50, T 17:00-17:50 Frimpong: W 11:00-11:50, W 12:00-12:50 Jayce Leonard: T 12:00-12:50, T 13:00-13:50 Location: B026 Klamath Hall. |
| Description | Basic concepts and practices of computer science. Topics include algorithmic problem solving, levels of abstraction, object-oriented design and programming, software organization, and analysis of algorithms and data structures. This course is part of a sequence with CS 211 and CS 212. |

Major Topics

- ☐ Introduction to Computer Science and Python
- ☐ Programming style and functions
- ☐ Conditionals, loops, strings
- ☐ Testing and Debugging
- ☐ Collections, mutable data types, data analysis
- ☐ File processing, data mining, binary search
- ☐ Intro to user-defined classes

Expected Learning Outcomes

- ☐ Understand, develop, and implement algorithms for computational problem solving
- ☐ Use structured design and testing methods to develop and implement programs
- ☐ Demonstrate robust mental models of data representation and code execution
- ☐ Demonstrate a good understanding of a high-level programming language (Python)
- ☐ Introduce/implement sampling of the classic computer science problem domains and algorithms

Acquired Skills

- ☐ Effectively use an IDE in the development and testing of moderate-sized Python programs
- ☐ Understand, develop, and implement algorithms for computational problem solving
- ☐ Read, write, revise, document, test, and debug code

Teaching Team



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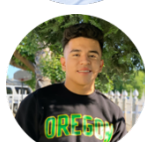
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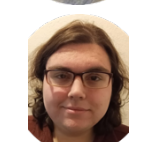
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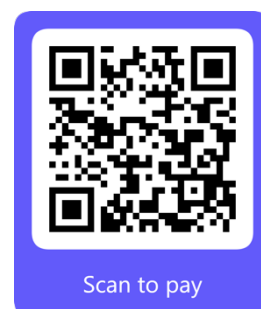
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Zoom: <https://uoregon.zoom.us/j/tba>

GEs and LAs will host their office hours at the Price Commons Science Library, Room B004.

Course Materials

(Required) Python Programming in Context, 3rd ed., Miller and Ranum. Jones and Bartlett Learning, 2021. You can obtain a hard copy or electronic version using multiple methods. Note that you will also use this book for part of CIS211. You may acquire it through Duck Store or Amazon.

(Required) Coding Rooms. Besides Canvas, we will use Coding Rooms (CR for short) for submitting and grading projects and labs. This tool allows us to code during office hours *and* for programming projects. Join CIS 210 W 24 in coding rooms using the join link (<https://app.codingrooms.com/app/?joinCode=C-aHG3G3Y>) or join code (C-aHG3G3Y) and submit the \$30 payment as soon as possible at



<https://buy.stripe.com/aEUcPN5q8g578jSeVG>. Register and pay with your school email address.

(Required) iClicker. I will use quizzes as a proxy for taking roll. To respond to those quizzes, Download the iClicker app (<https://apps.apple.com/us/app/iclicker-student/id899690067>). The join link for this course is (<https://join.iclicker.com/SUGH>). **Do not buy a physical iClicker - you will not need it for this course!!!**

Attendance

I will follow the new course attendance and engagement policy (<https://provost.uoregon.edu/course-attendance-and-engagement-policy>). The gist is that it is not up to the instructor's judgment whether the absence is "excused" or "unexcused."

- ☐ If you have a letter from the Accessible Education Center (AEC - <https://aec.uoregon.edu/request-accommodations>) stating that you may need to miss class, I will exempt you from the attendance requirement. If you anticipate needing this accommodation (or other accommodations), please get a start with AEC immediately and inform me as soon as possible.
- ☐ Absence required for religious observance (<https://provost.uoregon.edu/religious-observance-accommodations-policy>) will be excused, but you need to submit a form (<https://registrar.uoregon.edu/sites/registrar1.uoregon.edu/files/pdf/form-religious-accommodation-request.pdf>) before, not after, your absence (and preferably by the second week in the term).
- ☐ Suppose you encounter an emergency that will cause you to miss more than the allowances. In that case, your options are (a) withdrawing from this course, (b) an incomplete, but only if it would satisfy UO incompletes policy (<https://provost.uoregon.edu/grades-incompletes-policy>), or (c) contacting the Dean of Students to request an emergency academic notification (<https://dos.uoregon.edu/dos-faq>).
- ☐ Attendance will count for 5% of the total course grade. Read iClicker in Course Materials above. I will give iClicker quizzes regularly throughout the term, but not every lecture.

Following the lectures is the only way to provide timely interaction with the course instructor. There will be no lectures in hybrid instruction mode or parallel Zoom meetings for lectures or lab sessions. This course will not provide any recordings of lectures or lab sessions.

Grading

CIS majors, minors, and DSCI majors must take CIS 210 graded; others may take it graded or P/N.

In this course, you *accumulate points* as you complete assignments, exams, and other required activities. The table below shows the point values of each component.

| Component | Events | Dropped Events | % |
|----------------------|--------|----------------|-----|
| Online Exams | 2 | 0 | 20 |
| In-person Exams | 2 | 0 | 40 |
| Programming projects | 10 | 2 | 20 |
| Labs | 10 | 2 | 10 |
| Code demo | 1 | 0 | 5 |
| Attendance | - | - | 5 |
| Total | | | 100 |

Canvas will automatically drop the lowest grade from Projects and Labs (independently). To calculate your letter grade, **grades will be rounded but not curved**. Then, the letter grade will be computed from your final score according to the following table.

| Letter grade | Percentage | GPA | C+ | 77–79% | 2.33 |
|--------------|------------|--------------|----|--------|------|
| A+ | 97–100% | 4.33 or 4.00 | C | 73–76% | 2.00 |
| A | 93–96% | 4.00 | C- | 70–72% | 1.67 |
| A– | 90–92% | 3.67 | D+ | 67–69% | 1.33 |
| B+ | 87–89% | 3.33 | D | 63–66% | 1.00 |
| B | 83–86% | 3.00 | D- | 60–62% | 0.67 |
| B– | 80–82% | 2.67 | F | 0–59% | 0.00 |

Here is an example of the grade calculation procedure; the following image shows a grade simulator, with its components explained below.

| | | | | | | | | | | | | | | |
|-------------|-------|-------|----|-----|-----|----|----|----|----|--|-------|--------|-------------|-------------|
| Online Exam | 1 | 2 | | | | | | | | | Avg. | Weight | Final Grade | Final Grade |
| Grade | 80.00 | 85.00 | | | | | | | | | 82.50 | 0.20 | 85.00 | B |
| Exam | Midt. | Final | | | | | | | | | | | | |
| Grade | 80.00 | 90.00 | | | | | | | | | 85.00 | 0.40 | | |
| Code Demo | | | | | | | | | | | 85.00 | 0.05 | | |
| Attendance | | | | | | | | | | | 70.00 | 0.05 | | |
| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | |
| Project | 80 | 95 | 10 | 100 | 100 | 80 | 90 | 50 | 85 | | 90.00 | 0.20 | | |
| Lab | 90 | 90 | 70 | 50 | 100 | 95 | 90 | 10 | 90 | | 89.29 | 0.10 | | |

- ☐ Online exams are averaged – $(80 + 85.00)/2 = 82.50$
- ☐ Exams are averaged – $(80 + 90.00)/2 = 85.00$
- ☐ Code Demo and Attendance grades are based on a scale of 100
- ☐ Projects – The lowest two project grades (10, 50) will not be considered; the project's average is $(0+95+100+100+80+90+85)/7 = 90.00$
- ☐ Labs – Canvas will not consider the lowest two lab grades (50, 10), so the project's average is $(90+90+70+100+95+90+90)/7 = 89.29$
- ☐ The final grade after rounding is $82.50 * 0.20 + 85.00 * 0.4 + 85 * 0.05 + 70.00 * 0.05 + 0.90 * 0.02 + 89.29 * 0.10 = 85.00$
- ☐ The course letter grade will be **B**

Tips for CS 210 Students

- ❑ **Come to lectures and participate.** Lectures provide a detailed introduction to new material and examples relevant to the current or upcoming assignments and exams. Do the assigned reading before lectures. Participation in lectures and laboratories is the reason why you are paying tuition.
- ❑ **Monitor your grades in Canvas using the Grades Menu Option.** Notify your instructor of problems or discrepancies without delay. You must deal with any grading issues by e-mail.
- ❑ **Come to office hours.** Office hours allow you to get one-on-one help, ask questions, and seek general advice. Work smart and ask for help (sooner rather than later).
- ❑ **Complete all assignments and submit them on time.** Missing projects will have a significant effect on your final grade. Do not fall behind; start projects early. You will always get partial credit for partial solutions.
- ❑ **Inform the instructor ASAP if you are having difficulties.** There are often options early in the course that simply do not exist later.
- ❑ **E-mail Forwarding.** Canvas sends you all of the course notifications to your UO e-mail address. You can have your UO e-mail automatically forwarded to your primary e-mail account.

Course Communication

E-mail

Use E-mail for grading clarifications and personal questions.

Canvas

Do not use Canvas Messaging for any course communication. Canvas' messaging system is impractical from the instructor's point of view. Make sure you understand that **Canvas is not E-mail**.

Discord Campus Wire

Join Campus Wire, [CW](#), for peer-to-peer communication:

- ❑ Course Name: *CS 210: Computer Science I*
- ❑ Invite Link: <https://campuswire.com/p/GA0CBDA09> (code: 3986)

Please select the appropriate [CW](#) channel for your posts:

- ❑ **Announcements** – This channel is for official announcements only. Let me know if you want to post an announcement, and I will post it.
- ❑ **General** – Used to post comments, collaboration invitations to your peers, share an exciting website, tutorial, book, video, etc.
- ❑ **Office hours** – Post all OH-related announcements (from the teaching team) and questions here.
- ❑ **Use E-mail for questions about grading clarifications and personal questions.**

You may also reply to your peers' questions. When a student answers a question, anyone in the staff team can reinforce, complement, or correct the previous answer.

Do not Post Code

Students will undoubtedly need help with specific code. You may post 1-2 lines of code with a particular question; however, **do not post code blocks to *Discord* unless you post privately to the instructor or TAs.**

Netiquette Policy

Please use appropriate online etiquette to post or respond to any electronic communication. This course does not tolerate inappropriate forum postings. Below are specific online Netiquette guidelines:

- ☐ Never post personal information about another person.
- ☐ You may disagree with someone but never insult another person or use profanity, including Internet abbreviations known to represent profanity.
- ☐ Do not repeatedly post the same content (also known as scrolling).
- ☐ Post only material relevant to this course.
- ☐ Avoid posting content in ALL CAPS. Avoid emphasis in response to other posters that indicate derision.
- ☐ Try to follow the Golden Rule: treat others as you would like to be treated.

Academic Integrity Policy

The CS 210 Academic Integrity Policy is as follows:

1. Do not share programs/code with other students.
2. Do not submit the work of others, including any code found online, as your own work.
3. Be prepared to explain any program code you submit.

The instructor and the University expect academic honesty; they will handle suspected dishonesty according to university policy: "academic misconduct ... affects our entire university community ... it devalues the reputation of our institution, its faculty, its students, and the degrees we offer.

Moreover, academic misconduct is particularly unfair to the students who do their work with integrity and honor. All suspected academic misconduct incidents must be reported to the Office of Student Conduct and Community Standards."

You must credit all online sources you used as references by including a single comment in your code with the source URL. Referencing online material does not mean you may duplicate the online material.

You must produce the code you submit for labs and projects. Using ChatGPT or other Generative Artificial Intelligence tools to create such code is not considered your work. In any case, be prepared to answer questions about the code you submit.

Cheating means any deception by which a student misrepresents or misleadingly demonstrates that the student has mastered information on an academic exercise that the student has not learned. See UO Student Conduct Code – <https://policies.uoregon.edu/vol-3-administration-student-affairs/ch-1-conduct/student-conduct-code>. *The work you submit must be the result of your engagement with the process of computational problem-solving.* When you turn in the solution to an assignment with your name on it, you state that you are its author. Academic misconduct (e.g., plagiarism, copying code, cheating on exams) is a severe violation of the UO student conduct code, and its consequences can be severe and permanent. **Students who cheat in CS 210 will fail the class.**

"Ignorantia juris non excusat" – Ignorance of the law is no excuse. A student unaware of important course information may not escape liability for not meeting deadlines or expectations merely by being unaware of their content.

Universal Learning Environment

The University of Oregon, the CS department, and I are all working to create inclusive learning environments. Notify me if aspects of this course's instruction or design hinder your participation. Students with a UO disability notification letter should meet with me as early as possible. For Support and Services for Students with Disabilities, see the Accessible Education Center (<http://aec.uoregon.edu/>).

University COVID Policies

Read and follow the University of Oregon COVID regulations (<https://coronavirus.uoregon.edu/>).

Inclement Weather

Class is generally expected to meet unless the University is officially closed for inclement weather. If it becomes necessary to cancel class while the University remains open, this will be announced on Canvas and by E-mail. Updates on inclement weather and closure are also communicated in other ways described here: <https://hr.uoregon.edu/about-hr/campus-notifications/inclement-weather/inclement-weather-immediate-updates>.

Reporting Discrimination, Harassment, or Violence

Students experiencing sex or gender-based discrimination, harassment, or violence should call the 24-7 hotline at 541-346-SAFE [7244] or visit safe.uoregon.edu for help. Students experiencing all forms of prohibited discrimination or harassment may contact the Dean of Students Office at 541-346-3216 or the non-confidential Title IX Coordinator/OICRC at 541-346-3123. Additional resources are available at investigations.uoregon.edu/how-get-support.

Mental Health and Wellness

Life at college can be very complicated. Students often feel overwhelmed or stressed, experience anxiety or depression, struggle with relationships, or just need help navigating challenges. If you're facing such challenges, you don't need to handle them alone--there's help and support on campus. As your instructor, if I believe you may need additional support, I will express my concerns and the reasons for them and refer you to resources that might be helpful. I do not intend to know the details of what might be bothering you, but simply to let you know I care and that help is available. Getting help is a courageous thing to do—for yourself and those you care about.

University Health Services helps students cope with difficult emotions and life stressors. If you need general resources on coping with stress or want to talk with another student who has been in the same place as you, visit the Duck Nest (located in the EMU on the ground floor) and get help from one of the specially trained Peer Wellness Advocates. Find out more at health.uoregon.edu/ducknest.

University Counseling Services (UCS) has a team of dedicated staff members to support you with your concerns, many of whom can provide identity-based support. All clinical services are free and confidential. Find out more at counseling.uoregon.edu or by calling 541-346-3227 (anytime UCS is closed, the After-Hours Support and Crisis Line is available by calling this same number).

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 Dean of Students Office (346-3216, 164 Oregon Hall) for support. This UO webpage includes resources for food, housing, healthcare, childcare, transportation, technology, finances, and legal support: <https://blogs.uoregon.edu/basicneeds/food/>.

Accommodations for Religious Observances

The University makes reasonable accommodations, upon request, for students who are unable to attend a class for religious obligations or observance reasons, in accordance with the university discrimination policy, which says, “Any student who, because of religious beliefs, is unable to attend classes on a particular day shall be excused from attendance requirements and any examination or other assignment on that day. The student shall make up the examination or other assignment missed because of the absence.” To request accommodations for this course for religious observance, visit the Office of the Registrar's website <https://registrar.uoregon.edu/calendars/religious-observances> and complete and submit to the instructor the “Student Religious Accommodation Request” form prior to the end of the second week of the term.