

Course Syllabus

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NOTE: Some links in this syllabus page may only be accessible to currently enrolled students.

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Course Policies

Learning, Inquiry & Course Communication

This is a graduate level course in computer science, and each of us is expected to be an independent learner, engaging with the content, fellow students, and the learning staff. **Ask lots of questions.** We are all expected to participate a lot on the discussion board to get help from, and give help to, your fellow classmates. If you are not active on the discussion board you will get much less out of the course.

Each student is responsible for reading all Canvas course [Announcements](https://canvas.oregonstate.edu/courses/2025514/announcements) (<https://canvas.oregonstate.edu/courses/2025514/announcements>).

Late Work Policy

Assessed work, such as quizzes and notebooks, are generally due on Sundays. Each assignment will remain open for two days after the due date. We will review and score late work, but late submissions will receive a 50% score reduction.

If you would like an extension for any reason, please email the instructor at least 48 hours in advance of a due date.

Quality of Work

We expect students to care, and take pride in their submitted work, and present work of professional quality. This includes the lack of spelling errors, appropriate grammar, reasonable formatting, readability, and relatively clean code. We may request that you revise and resubmit a Notebook, if the quality of work does not exhibit care.

Students are encouraged to submit incomplete, high quality work rather than grasping for a poorly written, haphazardly complete or error-prone Notebook. In other words, ensure that your Notebook runs without error, even if it is only partially complete. We can best provide feedback on partial but functioning work, rather than non-functioning work.

Statement Regarding Religious Accommodation

Oregon State University is required to provide reasonable accommodations for employee and student sincerely held religious beliefs. It is incumbent on the student making the request to make the faculty member aware of the request as soon as possible prior to the need for the accommodation. See the [Religious Accommodation Process for Students](http://eoa.oregonstate.edu/religious-accommodation-policy) (<http://eoa.oregonstate.edu/religious-accommodation-policy>).

Guidelines for a Productive and Effective Online Classroom

(Adapted from Dr. Susan Shaw, Oregon State University)

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 bring any communications you believe to be in violation of this course policy to the attention of your instructor.

Active interaction with peers and your instructor is essential to success in this online course, paying particular attention to the following:

- Unless indicated otherwise, please complete the readings and view other instructional materials for each week before participating in the discussion board.
- Read your posts carefully before submitting them.
- Be respectful of others and their opinions, valuing diversity in backgrounds, abilities, and experiences.
- Challenging the ideas held by others is an integral aspect of critical thinking and the academic process. Please word your responses carefully, and recognize that others are expected to challenge your ideas. A positive atmosphere of healthy debate is encouraged.

Establishing a Positive Community

It is important you feel safe and welcome in this course. If somebody is making discriminatory comments against you, sexually harassing you, or excluding you in other ways, contact the instructor, your academic advisor, and/or report what happened at <https://studentlife.oregonstate.edu/studentconduct/reporting> (<https://studentlife.oregonstate.edu/studentconduct/reporting>) so we can connect you with resources.

Expectations for Student Conduct

Student conduct is governed by the university's policies, as explained in the [Student Conduct Code](https://beav.es/codeofconduct) (<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.

Academic Integrity

Note: All assignments are checked for plagiarism and originality, and compared to solutions found on typical cheating sites (Chegg, etc), other student work, and assessed for AI-generated work. Violations of the university's policies shall result in an F grade in this course.

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) (<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.

Plagiarism

Note: All assignments are checked for plagiarism and originality, and compared to solutions found on typical cheating sites (Chegg, etc), other student work, and assessed for AI-generated work. Violations of the university's policies shall result in an F grade in this course.

Keeping with the idea of needing to communicate with your classmates, you will need to share code with each other to communicate ideas and to explain problems. That said, you should only share what is needed. This is good practice in general. Having to look through an entire file to find a single function is not helpful when you could have just posted the functions.

You will also get great help from your classmates. If you use a code fix or suggestion from them you need to do two things.

1. You need to cite who it came from, that means you need to, in your code, add a comment saying that the code was not your original code and say what student or 3rd party provided it.
2. You need to document what the code is doing. So you should write roughly a sentence per line of code explaining what the snippet is doing. So if you were to say, use an entire 100 line file provided by a student you would need to write something around a 2,000 word essay describing what the code is doing.

When giving help, don't give more help than is needed. Try to keep answers deep in depth but narrow in focus. Address the problem the student is asking about and address it well, but keep from giving away too much about topics they might not have run into yet.

Turnitin

Your instructor may ask you to submit one or more of your writings to Turnitin, a plagiarism prevention service. Your assignment content will be checked for potential plagiarism against Internet sources, academic journal articles, and the papers of other OSU students, for common or borrowed content. Turnitin generates a report that highlights any potentially unoriginal text in your paper. The report may be submitted directly to your instructor or your instructor may elect to have you submit initial drafts through Turnitin, and you will receive the report allowing you the opportunity to make adjustments and ensure that all source material has been properly cited. Papers you submit through Turnitin for this or any course will be added to the OSU Turnitin database and may be checked against other OSU paper submissions. You will retain all rights to your written work. For further information, visit [Academic Integrity for Students: Turnitin – What is it?](https://guides.library.oregonstate.edu/c.php?g=286121&p=1906660) (<https://guides.library.oregonstate.edu/c.php?g=286121&p=1906660>).


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 the [DAS website \(http://ds.oregonstate.edu/\)](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 are accessible. If you require accommodations please contact [Disability Access Services \(http://ds.oregonstate.edu/home/\)](http://ds.oregonstate.edu/home/) (DAS).

Additionally, Canvas, the learning management system through which this course is offered, provides a [vendor statement](https://www.canvaslms.com/accessibility)  (<https://www.canvaslms.com/accessibility>) certifying how the platform is accessible to students with disabilities.

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 \(https://counseling.oregonstate.edu/reach-out-success\)](https://counseling.oregonstate.edu/reach-out-success).

Ecampus students are always encouraged to discuss issues that impact your academic success with the [Ecampus Success Team \(https://ecampus.oregonstate.edu/services/student-services/\)](https://ecampus.oregonstate.edu/services/student-services/). Email [ecampus.success@oregonstate.edu \(mailto:ecampus.success@oregonstate.edu\)](mailto:ecampus.success@oregonstate.edu) to identify strategies and resources that can support you in your educational goals.

- For mental health

Learn about [counseling and psychological resources for Ecampus students \(https://counseling.oregonstate.edu/main/ecampus-students\)](https://counseling.oregonstate.edu/main/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 (541-737-8748).

Academic Calendar

All students are subject to the registration and refund deadlines as stated in the [Academic Calendar \(https://registrar.oregonstate.edu/osu-academic-calendar\)](https://registrar.oregonstate.edu/osu-academic-calendar).

Student Bill of Rights

OSU has [twelve established student rights \(https://asosu.oregonstate.edu/advocacy/rights\)](https://asosu.oregonstate.edu/advocacy/rights). They include due process in all university disciplinary processes, an equal opportunity to learn, and grading in accordance with the

course syllabus.







Student Evaluation of Courses










During Fall, Winter, and Spring term the online Student Evaluation of Teaching system opens to students the Wednesday of Week 8 and closes the Sunday before Finals Week. Students receive notification, instructions and the link through their ONID. They may also log into the system via Online Services. Course evaluation results are extremely important and used to help improve courses and the hybrid learning experience for future students. Responses are anonymous (unless a student chooses to “sign” their comments, agreeing to relinquish anonymity) and unavailable to instructors until after grades have been posted. The results of scaled questions and signed comments go to both the instructor and their unit head/supervisor. Anonymous (unsigned) comments go to the instructor only.







<https://canvas.oregonstate.edu/courses/2025514/modules>

Course Summary:

Date	Details	Due
Sun Apr 6, 2025	 Notebook 1: Introduction to Jupyter Notebooks (w1)	due by 11:59pm
	https://canvas.oregonstate.edu/courses/2025514/assignments/10065698	
	 Quiz 1: Machine Learning Concepts & Vocabulary (w1)	due by 11:59pm
Sun Apr 13, 2025	 Quiz: Syllabus and 'Start Here'	due by 11:59pm
	https://canvas.oregonstate.edu/courses/2025514/assignments/10065694	
	 Quiz 2: Data Types, Preprocessing & Similarity Metrics (w2)	due by 11:59pm
Sun Apr 20, 2025	 Notebook 2: Data Exploration, Preprocessing & Similarity Metrics (w2)	due by 11:59pm
	https://canvas.oregonstate.edu/courses/2025514/assignments/10065699	
	 Quiz 3: k-Nearest Neighbors (w3)	due by 11:59pm
	https://canvas.oregonstate.edu/courses/2025514/assignments/10065686	

Date	Details	Due
	 <u>Notebook 3: Classification with k-Nearest Neighbors (w3)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065700	due by 11:59pm
	 <u>Quiz 4: Perceptrons (w4)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065690	due by 11:59pm
Sun Apr 27, 2025	 <u>Notebook 4: Classification with Perceptrons (w4)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065701	due by 11:59pm
	 <u>Midterm Exam (w5)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065696	due by 11:59pm
Sun May 4, 2025	 <u>Quiz 5: Deep Learning (w5)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065695	due by 11:59pm
	 <u>Quiz 6: Linear Regression & Gradient Descent (w6)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065692	due by 11:59pm
Sun May 11, 2025	 <u>Notebook 6: Predicting Housing Prices with Linear Regression (w6)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065702	due by 11:59pm
	 <u>Quiz 7: Logistic Regression (w7)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065691	due by 11:59pm
Sun May 18, 2025	 <u>Notebook 7: Classification with Logistic Regression (w7)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065703	due by 11:59pm
	 <u>Quiz 8: Support Vector Machines (w8)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065687	due by 11:59pm
Sun May 25, 2025	 <u>Notebook 8: Classification with Support Vector Machines (w8)</u> https://canvas.oregonstate.edu/courses/2025514/assignments/10065704	due by 11:59pm

Date	Details	Due
Sun Jun 1, 2025	 Quiz 9: Text Classification & Sentiment Analysis (w9) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065685)	due by 11:59pm
	 Notebook 9: Text Classification & Sentiment Analysis (w9) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065705)	due by 11:59pm
Fri Jun 6, 2025	 Quiz 10: Reflection on Machine Learning (w10) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065689)	due by 11:59pm
Thu Jun 12, 2025	 Final Exam (w11) (https://canvas.oregonstate.edu/courses/2025514/assignments/10065697)	due by 11:59pm