

# Course Syllabus

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## CS 160

Computer Science  
Orientation

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

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Download this syllabus in PDF form.

## CS 160 Computer Science Orientation

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**Credits:** 3

**Instructor name:** Hannah Scott

**Instructor email:** [scothann@oregonstate.edu](mailto:scothann@oregonstate.edu) (<mailto:scothann@oregonstate.edu>)

**Teaching Assistant name and contact info:** TBA

*This syllabus and schedule are subject to change in the event of extenuating circumstances.*

### Course Description

Introduction to the computer science field and profession. Team problem solving. Introduction to writing computer programs. Approach to teaching course topics vary across sections.

**Prerequisites:** None

### 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

through the Help link in our 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 \(https://oregonstate.teamdynamix.com/TDClient/Requests/TicketRequests/NewForm?ID=Dr9c0T7BaSI\\_\)](https://oregonstate.teamdynamix.com/TDClient/Requests/TicketRequests/NewForm?ID=Dr9c0T7BaSI_) online.

### Learning Resources

This course does not have a required textbook. Reading assignments will be provided in the form of lectures, articles online through OSU's library, and other online resources.

### Measurable Student Learning Outcomes

At the completion of this course, students will be able to:

1. Gain experience writing computer programs, for those who have not been experienced to programming, i.e. at the completion of the course, students will be able to demonstrate an ability to create simple computer programs.
2. Explain what computer science is and what computer scientists do.
3. Use computers for communication, research, productivity, etc.
4. Discover/cite sources of current computer science information.
5. Solve problems using abstraction and modularization.
6. Identify basic computer hardware components and explain their purposes.
7. Differentiate among types of software (open-source/proprietary, system/application, etc.)
8. Install/uninstall software systems.
9. Use some basic tools required for success in subsequent OSU Computer Science coursework.

### Course Content and Schedule

Week	Topic	Due Wed	Due Fri
1	Computer Science & Computer Scientists		Discussion 1: Introductions and C
2	Computational Thinking	Quiz 1: Week 1 reading	Discussion 2: Assignment 1 Pract
3	Resume-building	Assignment 1: Circuit Simulator	Discussion 3: Assignment 2 Chec
4	Design	Quiz 2: Weeks 2-3 Reading	Discussion 4: Design IRL

5	Software Engineering / Programming	Assignment 2: MD Resume	Discussion 5: Flowcharts and trac
6	Soft Skills	Quiz 3: Weeks 4-5 Reading	Discussion 6: Collaboration
7	Computers and Software	Assignment 3: "Scripting"	Discussion 7: Hardware
8	Research and Technical Writing	Quiz 4: Week 6-7 Reading	Discussion 8: Final Project Brains
9	OSU	Final Project Proposal Assignment 4: Command-line adventure	Discussion 9: Finding information
10	Special Topics (Open source, data ethics, inclusivity?)	Quiz 5: Weeks 8-9 Reading	Discussion 10: Final Project Chec
Final	Final Project Poster (due <b>Tuesday</b> )		

## Grading Policy

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Assessment	Pts each	Qty	Total
Assignments	9	4	36
Quizzes	6	5	30
Discussions	2	10	20
Final project proposal	4	1	4

Final project poster	10	1	10
Total Points:			100

Letter Grade

Grade	Percent Floor
A	90
A-	88
B+	85
B	80
B-	78
C+	75
C	70
C-	68
D+	65
D	60
D-	58
F	0

Course Policies

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## Student Conduct

Allowed :)	NOT allowed >:(
Showing your work to an instructor or TA, or sharing report drafts with your discussion group.	Giving your work to a (current or future) student so they can copy it.
Discussing strategies and concepts with classmates.	Submitting someone else's work as your own or claiming their work as yours.
Submitting incomplete work before the deadline with a note saying you are going to resubmit.	Asking for an extension after missing the deadline for an assignment (except in unavoidable emergencies).
Asking too many questions by email, in Slack, or on the class message board.	Not understanding what you need to do, not asking for help, and then asking what you can do after it's too late.
Disagreeing with someone on the message board.	Name-calling, stalking, or counter-productive comments.
Discussing the assigned reading or quiz questions in the OFFICIAL Slack, on Piazza, or in your discussion group.	Sharing the quiz questions or answers publicly or outside of a class communication medium.

## Late Work Policy

**You must submit all assignments before the due date. We do not accept submissions if the deadline is missed. If you do not submit before the due date, you will receive no credit.**

However, we do have a "revision grace period" policy for the quizzes and assignments. If you are unable to fulfill an assignment, project step, or quiz to your satisfaction before the due date--for any reason--you may notify the TA (via a Canvas comment **or** email along with the original on-time submission) that you plan to submit a revision. You may then submit a revision **within 3 days**.

**Discussion posts and the final are not eligible for late revisions.**

If you **1)** submit a partial fulfillment of the requirements before the due date, **2)** notify the TA when you submit your first attempt, and then **3)** resubmit a revised version of your work within 3 days, your grade will reflect your final submission only without incurring penalties. If you do not resubmit within 3 days, your grade will reflect your original (potentially incomplete) submission.

Exceptions may be made at the instructor's discretion for documented emergencies e.g. hospitalization, or extraordinary extenuating circumstances.

## **Discussion Participation**

Students are expected to participate in all graded discussions. While there is great flexibility in online courses, this is not a self-paced course. Discussions are due on Fridays, however you will benefit more from them if you make your first post early in the week.

## **Proctored Exams**

There will be no exams in this course.

## **Incompletes**

Incomplete (I) grades will be granted only in emergency cases (usually only for a death in the family, major illness or injury, or birth of your child), and if the student has turned in 80% of the points possible (in other words, usually everything but the final paper). If you are having any difficulty that might prevent you from completing the coursework, please don't wait until the end of the term; let me know right away.

## **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 bring any communications you believe to be in violation of this class 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.

## **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.

## Communication and Where to Go for Help

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**Hannah Scott** (instructor): [scothann@oregonstate.edu](mailto:scothann@oregonstate.edu) (<mailto:scothann@oregonstate.edu>)

Office hours on Slack: By appointment. Feel free to message me on Slack without an appointment; I'm generally very active and will usually get back to you within a few business hours.

**Alex Dewald** (Undergraduate Learning Assistant): [dewalda@oregonstate.edu](mailto:dewalda@oregonstate.edu) (<mailto:dewalda@oregonstate.edu>)

Office hours on Slack: TBA

Please note that you are not responsible for keeping up with all communication channels. I will post any changes to assignments or necessary announcements on Canvas. We have a Slack workspace for your convenience where you can drop in and ask questions any time, but you do not have to keep up with all activity on Slack. The weekly discussions are also a great place to ask questions about the assignment, and in fact some discussions will be devoted to that purpose.

We also have a message board (Piazza), however this is the last term that OSU will be using that service (as they are moving to a different business model) and you may find it awkward to use during the transition (i.e. they will ask you to donate money). Your ULA and myself will both be active in the weekly discussions and on Slack, which I recommend over Piazza.

**Slack** (<https://class-cs160-w21.slack.com>) (a forum for more informal interaction with other students, and also for office hours)

**Piazza** ([http://piazza.com/oregonstate/winter2021/computerscienceorientationcs\\_160\\_400\\_w2021](http://piazza.com/oregonstate/winter2021/computerscienceorientationcs_160_400_w2021)) (a Q&A forum for help from the instructor and other students)

OSU has online tutoring for EECS students at [engineering.oregonstate.edu/current-students/academic-support](https://engineering.oregonstate.edu/current-students/academic-support) (<https://engineering.oregonstate.edu/current-students/academic-support>)

**Ecampus Student Resources** (<https://courses.ecampus.oregonstate.edu/studentresources.html>)

## University Policies

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### 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>

(<https://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.

## **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 \(http://eo.oregonstate.edu/religious-accommodation-policy\)](http://eo.oregonstate.edu/religious-accommodation-policy).

## **Accessibility of Course Materials**

All materials used in this course are accessible. If you require accommodations please contact [Disability Access Services \(DAS\) \(http://ds.oregonstate.edu/home/\)](http://ds.oregonstate.edu/home/).

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.

## **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 \(https://guides.library.oregonstate.edu/c.php?g=286121&p=3896378\)](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.

## **Ecampus Reach Out for Success**

University students encounter setbacks from time to time. If you encounter difficulties and need



University students encounter obstacles 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).

### **Code of Conduct**

The Code of Student Conduct prohibits Academic Misconduct and defines it as:

Any action that misrepresents a student or group's work, knowledge, or achievement, provides a potential or actual inequitable advantage, or compromises the integrity of the educational process.

To support understanding of what can be included in this definition, the Code further classifies and describes examples of Academic Misconduct, including cheating, plagiarism, assisting and others. See the [Code of Student Conduct](https://studentlife.oregonstate.edu/studentconduct) (<https://studentlife.oregonstate.edu/studentconduct>) for details.

You are expected to do your own work and demonstrate academic integrity in every aspect of this course. Familiarize yourself with the standards set forth in the OSU Code of Student Conduct Section 4.2. You must only access sources and resources authorized by the instructor. You may not show your work to any other current or future students without the instructor's authorization. Violations of these expectations or the Code of Student Conduct will be reported to the Office of Student Conduct and

Community Standards. If there is any question about whether an act constitutes academic misconduct, it is your responsibility to seek clarification and approval from the instructor prior to acting.

### **Tutoring and Writing Assistance**

NetTutor (<https://ecampus.oregonstate.edu/services/student-services/online-tutoring/>) is a leading

<http://ecampus.oregonstate.edu/turnitin-service/online-writing/> is a reading provider of online tutoring and learner support services fully staffed by experienced, trained and monitored tutors. Students connect to live tutors from any computer that has Internet access. NetTutor provides a virtual whiteboard that allows tutors and students to work on problems in a real time environment. They also have an online writing suite where tutors critique and return essays within 24 to 48 hours. Access NetTutor from within your Canvas class by clicking on the Tools button in your course menu.

The Oregon State [Online Writing Suite \(http://writingcenter.oregonstate.edu/online-writing-lab\)](http://writingcenter.oregonstate.edu/online-writing-lab) is also available for students enrolled in Ecampus courses.

## 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 class 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? \(http://guides.library.oregonstate.edu/c.php?g=286121&p=1906660\)](http://guides.library.oregonstate.edu/c.php?g=286121&p=1906660).

## Student Evaluation of Courses

The online Student Evaluation of Teaching system opens to students during the week before finals and closes the Monday following the end of finals. Students receive notifications, 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 online 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.



## Course Summary:

Date	Details
Fri Jan 8, 2021	 <b><u>Discussion: Introductions and CS experience</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188832">https://canvas.oregonstate.edu/courses/1819732/assignments/8188832</a> due by 11:59pm
Wed Jan 13, 2021	 <b><u>Quiz 1: Week 1</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188821">https://canvas.oregonstate.edu/courses/1819732/assignments/8188821</a> due by 11:59pm
Fri Jan 15, 2021	 <b><u>Discussion: Assignment 1 Practice</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188830">https://canvas.oregonstate.edu/courses/1819732/assignments/8188830</a> due by 11:59pm
Wed Jan 20, 2021	 <b><u>Assignment 1</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188833">https://canvas.oregonstate.edu/courses/1819732/assignments/8188833</a> due by 11:59pm
Fri Jan 22, 2021	 <b><u>Discussion: Assignment 2 Check-in</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188831">https://canvas.oregonstate.edu/courses/1819732/assignments/8188831</a> due by 11:59pm
Wed Jan 27, 2021	 <b><u>Quiz 2: Weeks 2-3</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188819">https://canvas.oregonstate.edu/courses/1819732/assignments/8188819</a> due by 11:59pm
Fri Jan 29, 2021	 <b><u>Discussion: Design IRL</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188829">https://canvas.oregonstate.edu/courses/1819732/assignments/8188829</a> due by 11:59pm
Wed Feb 3, 2021	 <b><u>Assignment 2</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188834">https://canvas.oregonstate.edu/courses/1819732/assignments/8188834</a> due by 11:59pm
Fri Feb 5, 2021	 <b><u>Discussion: Flowcharts and Tracing</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188828">https://canvas.oregonstate.edu/courses/1819732/assignments/8188828</a> due by 11:59pm
Wed Feb 10, 2021	 <b><u>Quiz 3: Weeks 4-5</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188820">https://canvas.oregonstate.edu/courses/1819732/assignments/8188820</a> due by 11:59pm
Fri Feb 12, 2021	 <b><u>Discussion: Algorithms</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188827">https://canvas.oregonstate.edu/courses/1819732/assignments/8188827</a> due by 11:59pm
Wed Feb 17, 2021	 <b><u>Assignment 3 - Group Part</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188835">https://canvas.oregonstate.edu/courses/1819732/assignments/8188835</a> due by 11:59pm
	 <b><u>Assignment 3 - Report</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188836">https://canvas.oregonstate.edu/courses/1819732/assignments/8188836</a> due by 11:59pm

Date	Details
Fri Feb 19, 2021	 <b><u>Discussion: Random Number Generator Demo</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188826">https://canvas.oregonstate.edu/courses/1819732/assignments/8188826</a> due by 11:59pm
Wed Feb 24, 2021	 <b><u>Quiz 4: Weeks 6-7</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188817">https://canvas.oregonstate.edu/courses/1819732/assignments/8188817</a> due by 11:59pm
Fri Feb 26, 2021	 <b><u>Discussion: Final Project Brainstorming</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188825">https://canvas.oregonstate.edu/courses/1819732/assignments/8188825</a> due by 11:59pm
Wed Mar 3, 2021	 <b><u>Final Project Proposal</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188839">https://canvas.oregonstate.edu/courses/1819732/assignments/8188839</a> due by 11:59pm  <b><u>Assignment 4</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188837">https://canvas.oregonstate.edu/courses/1819732/assignments/8188837</a> due by 11:59pm
Fri Mar 5, 2021	 <b><u>Discussion: Evaluate a Website</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188824">https://canvas.oregonstate.edu/courses/1819732/assignments/8188824</a> due by 11:59pm
Wed Mar 10, 2021	 <b><u>Quiz 5: Weeks 8-9</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188816">https://canvas.oregonstate.edu/courses/1819732/assignments/8188816</a> due by 11:59pm
Fri Mar 12, 2021	 <b><u>Discussion: Final Project Check-in</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188823">https://canvas.oregonstate.edu/courses/1819732/assignments/8188823</a> due by 11:59pm
Tue Mar 16, 2021	 <b><u>Discussion: Extra Credit Course Reflection</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188822">https://canvas.oregonstate.edu/courses/1819732/assignments/8188822</a> due by 11:59pm  <b><u>Final Project Poster (Portfolio Project)</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188838">https://canvas.oregonstate.edu/courses/1819732/assignments/8188838</a> due by 11:59pm  <b><u>Syllabus Quiz</u></b> <a href="https://canvas.oregonstate.edu/courses/1819732/assignments/8188818">https://canvas.oregonstate.edu/courses/1819732/assignments/8188818</a>