

Major Offered At:

**CORVALLIS**

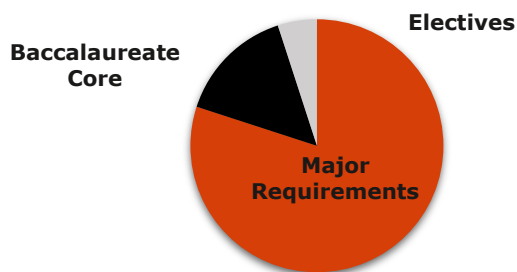
**Mt. Hood  
Community College**

## Computer Science – Computer Systems Option

Computer science is the study of algorithms and problem solving. These problems apply to every scientific, engineering, and mathematical field, making computer scientists relevant in every professional field today. A computer science degree at Oregon State can give you the skills to program a custom low-level sensor board all the way up to coordinating cloud datacenters full of servers.

One of the benefits of the Systems option is its accreditation. The Computer Systems Option is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org> in both Bachelors of Science degrees and in Honors Bachelors of Science degrees. The Computer Systems option gives students the necessary training and preparation that many large companies (such as Google, Apple, and Intel) desire.

## Your Bachelor's Degree (BS) in the College of Engineering



- A minimum of 180 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Some courses can count towards your major and the Baccalaureate Core. Advisors can assist in selection.
- More info at [eecs.oregonstate.edu/undergraduate-programs/computer-science](http://eecs.oregonstate.edu/undergraduate-programs/computer-science)

## Courses Required for Computer Science Major, Computer Systems option

This list is comprehensive. Speak with OSU advisor for more information

Computer Science – Systems Core Requirements	MHCC Equivalent Course	OSU Course	Notes
Computer Science Orientation	CS 160	CS 160	
Intro to Computer Science I	CS 161	CS 161	
Intro to Computer Science II	CS 162	CS 162	
Data Structures	CS 260	CS 261	
Web Development	N/A	CS 290	
Digital Logic Design	N/A	ECE 271	
Digital Logic Design lab	N/A	ECE 272	
Differential Calculus	MTH 251	MTH 251	
Integral Calculus	MTH 252	MTH 252	
Vector Calculus I	MTH 254	MTH 254	
Elements of Discrete Math	N/A	MTH 231	
Introduction to Matrix Algebra	N/A	MTH 264	
Introduction to Series	N/A	MTH 265	
Intro to Statistics for Engineers	N/A	ST 314	
General Physics (Calculus) with Rec.	PH 211	PH 211/221	
General Physics (Calculus) with Rec.	PH 212	PH 212/222	
General Physics (Calculus) with Rec.	PH 213	PH 213/223	
Public Speaking	COMM 111	COMM 111	Complete 1(one) course
Argument & Critical Discourse	COMM 114	COMM 114	
Writing in Business	N/A	WR 214	Complete 1(one) course
English Composition	N/A	WR 222	
Technical Writing	WR 227	WR 327	

## Important Notes & Resources

### Important Notes for the College of Engineering and Computer Science Major, Computer Systems option:

- Grade requirements: Grade of C or better in all major coursework. See [catalog.oregonstate.edu/college-departments/engineering](http://catalog.oregonstate.edu/college-departments/engineering) for more information.
- See a sample degree plan by searching "Computer Science" at [admissions.oregonstate.edu/find-your-major](http://admissions.oregonstate.edu/find-your-major)
- Other similar majors to explore: Electrical and Computer Engineering
- CS students: the best time to transfer is fall term, particularly due to MECOP. Talk with an OSU advisor about your specific timeline.
- CS majors can participate in two six-month paid internships with MECOP: [mecopinc.org](http://mecopinc.org)

### Resources and OSU Information:

- Students do not have to complete a transfer degree in order to transfer to OSU.
  - If you've completed the Oregon AAOT, all requirements of the Baccalaureate Core are complete except for Synthesis Courses and Writing Intensive Courses.
- Preparing to apply to OSU? See admissions info: [transfer.oregonstate.edu](http://transfer.oregonstate.edu)
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: [partnerships.oregonstate.edu/students](http://partnerships.oregonstate.edu/students)

## General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of MHCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-mount-hood-community-college](http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-mount-hood-community-college)

<b>SKILLS COURSES</b>	Math Writing I Writing II Speech (Writing III) Fitness (Only HHS 231)	Completed as part of the major WR 121. Required to transfer. Completed as part of the major Completed as part of the major HE 295
<b>PERSPECTIVE COURSES</b>	Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture	Choose one course from BaccCore link above Completed as part of the major Completed as part of the major Choose one course from BaccCore link above Choose one course from BaccCore link above Choose one course from BaccCore link above Choose one course from BaccCore link above
<b>DPD COURSE</b>	Difference, Power, & Discrimination	Choose one course from BaccCore link above
<b>SYNTHESIS COURSES</b>	Contemporary Global Issues Science, Technology, & Society	Upper division course, take through OSU Completed as part of the major

## Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first and use this Transfer Guide to help you plan.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See [visitosu.oregonstate.edu/visit-campus](http://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

<b>Mt. Hood Community College</b>	<a href="http://www.mhcc.edu/Degrees_TransferGuides/">http://www.mhcc.edu/Degrees_TransferGuides/</a>
<b>OSU Electrical Engr. &amp; Comp. Sci.</b>	<a href="mailto:Eecsundergrad.info@engr.oregonstate.edu">Eecsundergrad.info@engr.oregonstate.edu</a>
<b>OSU College of Engineering Main Office</b>	<a href="mailto:askengineering@oregonstate.edu">askengineering@oregonstate.edu</a>