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.

Applied Plan Areas of Interest:
• Bioinformatics
• Simulation & Game Programming
• Human Computer Interaction
• Security
• Artificial Intelligence
• Data Science
• Web and Mobile Application Development

Bachelor of Science 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 124 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.
- OSU Catalog has a list of courses required for your major and option: catalog.oregonstate.edu

Courses for this Major offered at Central Oregon Community College

<table>
<thead>
<tr>
<th>Requirement</th>
<th>COCC Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science Orientation</td>
<td>CS 160</td>
<td>CS 160</td>
<td></td>
</tr>
<tr>
<td>Computer Programming I</td>
<td>CS 161</td>
<td>CS 161</td>
<td></td>
</tr>
<tr>
<td>Computer Programming II</td>
<td>CS 162</td>
<td>CS 162</td>
<td></td>
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<tr>
<td>Data Structures</td>
<td>CS 260</td>
<td>CS 261</td>
<td></td>
</tr>
<tr>
<td>Computer Architecture &amp; Assembly Language</td>
<td>Not available at COCC</td>
<td>CS 271</td>
<td>Must be taken at OSU</td>
</tr>
<tr>
<td>Web Development</td>
<td>Not available at COCC</td>
<td>CS 290</td>
<td>Must be taken at OSU</td>
</tr>
<tr>
<td>Differential Calculus</td>
<td>MTH 251</td>
<td>MTH 251</td>
<td></td>
</tr>
<tr>
<td>Integral Calculus</td>
<td>MTH 252</td>
<td>MTH 252</td>
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</tr>
<tr>
<td>Discrete Math</td>
<td>MTH 231</td>
<td>MTH 231</td>
<td></td>
</tr>
<tr>
<td>Additional Writing</td>
<td>WR 122</td>
<td>WR 222</td>
<td></td>
</tr>
<tr>
<td>Statistics for Engineers</td>
<td>Not available at COCC</td>
<td>ST 314</td>
<td>Must be taken at OSU</td>
</tr>
</tbody>
</table>
Important Notes & Resources

Important Notes for the College and Major:
• Grade of C or better are required in all major specific courses.
• CS majors can participate in two six-month paid internships with MECOP https://www.mecopinc.org/
• Other similar majors to explore: Electrical and Computer Engineering
• Minor information: https://ecampus.oregonstate.edu/online-degrees/undergraduate/minors/computer-science/

Resources and OSU Information:
• Students do not have to complete a transfer degree in order to transfer to OSU.
  o If you have 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: oregonstate.edu/admissions/transfer.html
• Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: partnerships.oregonstate.edu/students
• Visit OSU for a campus tour and meet with an advisor; schedule your visit at visitosu.oregonstate.edu/visit-campus

General Education Courses (called Baccalaureate Courses)
• Complete one course in each Perspectives category with no more than two in the same department.
• For full listing of courses that fulfill Baccalaureate Core, please refer to admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college

| SKILL COURSES | Math  
|               | Writing I  
|               | Writing II  
|               | Speech (Writing III)  
|               | Fitness  
| PERSPECTIVE COURSES | Biological Science  
|                   | Physical Science  
|                   | Additional Biological or Physical Science  
|                   | Cultural Diversity  
|                   | Literature and the Arts  
|                   | Social Processes and Institutions Western Culture  
|                     | Completed as part of major.  
|                     | WR 121. Required to transfer.  
|                     | WR 227  
|                     | COMM 111 or COMM 112  
|                     | HE 295  
| DPD COURSES | Difference, Power, and Discrimination  
| SYNTHEISIS COURSES | Contemporary Global Issues  
|                     | Science, Technology, and Society  
|                     | Upper division course, take through OSU.  
|                     | Upper division course, take through OSU.

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. Also, consider visiting OSU to take a campus tour and meet with an advisor. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

| COCC Advisor |  
|              |  
| OSU Electrical Engineering & Computer Science Advisor | eecsundergrad.info@engr.oregonstate.edu  
| OSU College of Engineering Main Office | askengineering@oregonstate.edu  

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