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.

Careers in CS field:
- Software Developer
- User Interface Designer
- Video Game Designer
- Cybersecurity Analyst
- Cloud Engineer
- Data Scientist
- Mobile Application Developer

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 Clackamas Community College

<table>
<thead>
<tr>
<th>Requirement</th>
<th>CCC Course</th>
<th>OSU Course</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>Computer Science Orientation</td>
<td>CS 160</td>
<td>CS 160</td>
<td></td>
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<tr>
<td>Computer Programming I, II</td>
<td>CS 161, 162</td>
<td>CS 161, 162</td>
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<tr>
<td>Data Structures</td>
<td>CS 260</td>
<td>CS 261</td>
<td></td>
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<tr>
<td>Web Development</td>
<td>Not available at CCC</td>
<td>CS 290</td>
<td>Must be taken at OSU</td>
</tr>
<tr>
<td>Digital Logic Design</td>
<td>ENGR 171</td>
<td>ECE 271 + 272</td>
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</tr>
<tr>
<td>Calculus Series I, II, III</td>
<td>MTH 251, 252, 254</td>
<td>MTH 251, 252, 254</td>
<td></td>
</tr>
<tr>
<td>Introduction to Matrix Algebra</td>
<td>MTH 253</td>
<td>MTH 264</td>
<td></td>
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<tr>
<td>Introduction to Series</td>
<td>MTH 253</td>
<td>MTH 265</td>
<td></td>
</tr>
<tr>
<td>Discrete Math</td>
<td>CS 250</td>
<td>MTH 231</td>
<td></td>
</tr>
<tr>
<td>Physics with Calculus I, II, III</td>
<td>PH 211, 212, 213</td>
<td>PH 211, 212, 213</td>
<td></td>
</tr>
<tr>
<td>Statistics for Engineers</td>
<td>Not available at CCC</td>
<td>ST 314</td>
<td>Must be taken at OSU</td>
</tr>
<tr>
<td>Additional Writing</td>
<td>BA 214 or WR 122</td>
<td>WR 214 or WR 222</td>
<td></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/](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/](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.
  - 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](https://www.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](https://partnerships.oregonstate.edu/students)
- Visit OSU for a campus tour and meet with an advisor; schedule your visit at [visitosu.oregonstate.edu/visit-campus](https://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-clackamas-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-clackamas-community-college)

| SKILL COURSES | Math  
| | Writing I  
| | Writing II  
| | Speech (Writing III)  
| | Fitness  
| | Completed as part of major.  
| | WR 121. Required to transfer.  
| | WR 227  
| | COMM 111 or COMM 112  
| | HE 295  
| 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.  
| | Completed as part of major.  
| | Completed as part of major.  
| | Many options, see BaccCore link above.  
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| | Many options, see BaccCore link above.  
| DPD COURSES | Difference, Power, and Discrimination  
| | Many options, see BaccCore link above.  
| SYNTHESIS 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](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

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

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