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 Lane Community College

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Lane CC 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, II</td>
<td>CS 161J or 161C+, 162C+</td>
<td>CS 161, 162</td>
<td></td>
</tr>
<tr>
<td>Data Structures</td>
<td>CS 260</td>
<td>CS 261</td>
<td></td>
</tr>
<tr>
<td>Web Development</td>
<td>Not available at LCC</td>
<td>CS 290</td>
<td>Must be taken at OSU</td>
</tr>
<tr>
<td>Digital Logic Design</td>
<td>Not available at LCC</td>
<td>ECE 271 + 272</td>
<td>Must be taken at OSU</td>
</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 261</td>
<td>MTH 264</td>
<td></td>
</tr>
<tr>
<td>Introduction to Series</td>
<td>MTH 253</td>
<td>MTH 265</td>
<td></td>
</tr>
<tr>
<td>Discrete Math</td>
<td>MTH 231</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>MTH 265</td>
<td>ST 314</td>
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<tr>
<td>Additional Writing</td>
<td>WR 122</td>
<td>WR 222</td>
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</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-lane-community-college

<table>
<thead>
<tr>
<th>SKILL COURSES</th>
<th>Completed as part of major.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td></td>
</tr>
<tr>
<td>Writing I</td>
<td></td>
</tr>
<tr>
<td>Writing II</td>
<td></td>
</tr>
<tr>
<td>Speech (Writing III)</td>
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<tr>
<td>Fitness</td>
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<table>
<thead>
<tr>
<th>PERSPECTIVE COURSES</th>
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<tbody>
<tr>
<td>Biological Science</td>
<td></td>
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<tr>
<td>Physical Science</td>
<td></td>
</tr>
<tr>
<td>Additional Biological or Physical Science</td>
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<tr>
<td>Cultural Diversity</td>
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<tr>
<td>Literature and the Arts</td>
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<tr>
<td>Social Processes and Institutions</td>
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<tr>
<td>Western Culture</td>
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</table>

<table>
<thead>
<tr>
<th>DPD COURSES</th>
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<tbody>
<tr>
<td>Difference, Power, and Discrimination</td>
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</table>

<table>
<thead>
<tr>
<th>SYNTHESIS COURSES</th>
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<tbody>
<tr>
<td>Contemporary Global Issues</td>
<td></td>
</tr>
<tr>
<td>Science, Technology, and Society</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Lane Community College Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSU Electrical Engineering &amp; Computer Science Advisor</td>
</tr>
<tr>
<td>OSU College of Engineering Main Office</td>
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</tbody>
</table>