Students interested in completing a **Bachelor of Science Degree in Computer Science** at an **Oregon University** can complete freshman and sophomore (“Lower Division”) coursework at PCC and then transfer to one of the following Oregon Universities to complete their Bachelor of Science degree.

**Oregon State University** – Bachelor’s Degree in Computer Systems
[https://eecs.oregonstate.edu/undergraduate-programs/computer-science](https://eecs.oregonstate.edu/undergraduate-programs/computer-science)

*Note*: OSU also offers applied options in computer science that combine different majors with CS – see link above

**Oregon Technology** – Bachelor’s Degree in Software Engineering Technology
[https://www.oit.edu/academics/degrees/software-engineering-technology](https://www.oit.edu/academics/degrees/software-engineering-technology)

**Portland State University** – Bachelor’s Degree in Computer Science
[https://www.pdx.edu/computer-science/](https://www.pdx.edu/computer-science/)

**University of Oregon** – Bachelor’s Degree in Computer Science
[https://scds.uoregon.edu/cs/undergraduate-programs](https://scds.uoregon.edu/cs/undergraduate-programs)

**Western Oregon University** – Bachelor’s Degree in Computer Science
[https://wou.edu/cs/](https://wou.edu/cs/)

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Where to find information in this Advising Guide

- Frequently Asked Questions: page 2
- What would my First Term classes be?: page 3
- Transfer information and sample first year plan: page 4
- PCC’s beginning CS classes: page 5
- Admission requirements for **Portland State University**: page 6
- Sample academic plan for transfer to PSU for CS: page 7
Frequently Asked Questions

What is Computer Science?

Computer Science is the study of **computer programming** or software development. Computer Scientists learn how to design, develop, test and apply new software systems.

Computer Science is found in a wide variety of jobs, including Software Engineering, Artificial Intelligence, Computer Systems, Video Game Development and Software Security.

Does PCC offer an Associate’s Degree in Computer Science?

No. Computer Science is a transfer major only at PCC; there is no certificate or associate’s degree in computer science.

What jobs does a bachelor’s degree in Computer Science prepare students for?

The Bachelor of Science degree in Computer Science prepares students for jobs such as:

- Software Development
- Software Engineering
- Game Development
- Penetration Tester

Is Computer Information Systems the same thing as Computer Science?

No. CIS and CS are two completely different majors!

CIS is PCC’s **Information Technology (IT) program.** CIS prepares students for work in IT Tech Support, Software Testing, and Network Security, to name a few. **Not one CIS class** transfers towards any requirements in a bachelor’s degree in computer science.
What would my first term classes be?

That depends on two things: (1) your reading, writing and math placement tests and/or your completion of WR and MTH classes at PCC or another college or university and (2) your background in programming.

It is recommended that students complete at least MTH 65 (Intro to algebra II) before taking their first Computer Science (CS) class: CS 160 or CS 161A.

If you are new to programming, new to college and wish to be full-time:

<table>
<thead>
<tr>
<th>If you score into WR 121 and MTH 60 or 65</th>
<th>If you score into WR 121 and MTH 95 or higher:</th>
</tr>
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<tbody>
<tr>
<td>WR 121 English Comp (4 CR)</td>
<td>WR 121 English Comp (4 CR)</td>
</tr>
<tr>
<td>MTH 60 or 65 (4 CR)</td>
<td>MTH 95 or higher (4-5 CR)</td>
</tr>
<tr>
<td>PSY 201A psychology (4 CR)</td>
<td>CS 160 exploring CS (4 CR)</td>
</tr>
</tbody>
</table>

If you have a background in programming already, but are new to college:

<table>
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<th>If you score into WR 121 and MTH 60 or 65</th>
<th>If you score into WR 121 and MTH 95 or higher</th>
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<td>CS 161A Programming I (4 CR)</td>
</tr>
</tbody>
</table>

If you completed a college-level English Composition and Math class and/or have college credits and/or a degree from a regionally accredited college or university within the United States:

Please email an unofficial copy of your college transcripts and your PCC student ID number (“G number”) to your assigned Advisor and ask for a placement test override and advice on your first term classes.

Please note: if your last math class was completed more than three years ago, you may need to take the math placement test to determine your first math class at PCC.
Transfer Information for Computer Science majors at PCC

As an Oregon Community College, PCC has transfer agreements with the Oregon Universities. This means that PCC advisors can help you choose classes that will transfer to the Oregon University you intend to transfer to for computer science.

Each University has the right to determine what their lower division requirements should be for their Bachelor of Science degrees. For this reason, each University has slightly different lower division requirements for their computer science degree.

As a result: students cannot complete two years of classes at PCC that will meet the lower division requirements for ALL Universities for computer science. Students need to decide on their transfer school by the end of their Freshman year.

Universities outside of Oregon

PCC advisors cannot tell you if our classes transfer to a University outside of Oregon.

If you are interested in transferring to a university outside of Oregon for Computer Science, it is your responsibility to find out if that university will transfer in PCC’s computer science classes.

In many cases, it is in the student’s best interest to transfer to a community college within the same State as their transfer university to ensure their classes will transfer smoothly to that university.

Sample first year plan of classes that will transfer to all of the Oregon Universities.

This plan assumes the student tests into MTH 251 (calculus I) and WR 121 (English Composition); has no transfer credits, wants to go full-time and intends to transfer to an Oregon University. Your plan may look different.

<table>
<thead>
<tr>
<th>Term One</th>
<th>Term Two</th>
<th>Term Three</th>
<th>Term Four</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 160 exploring CS</td>
<td>CS 161A Programming I</td>
<td>CS 161B Programming II</td>
<td>CS 162 comp science II</td>
</tr>
<tr>
<td>MTH 251 calculus I</td>
<td>MTH 252 calculus II</td>
<td>PSY 201A psychology</td>
<td>HE 295 &amp; PE 295 health &amp; fitness</td>
</tr>
<tr>
<td>WR 121 English Comp</td>
<td>COMM 111 pblc speak</td>
<td>WR 227 tech writing</td>
<td>PHL 191 philosophy</td>
</tr>
</tbody>
</table>
Our beginning Computer Science (CS) classes.

CS 160 (exploring computer science) – this is a beginning programming class taught in python. This class is required by most of the Oregon Universities

CS 161A (programming I) – this is a first term C++ programming class

CS 161B (programming II) – this is a second term C++ class taught on a Linux platform (prereq is CS 161A)

CS 162 (computer science II) – this continues with C++ on Linux (prereq is CS 161B)

Can I skip CS 160 and go directly into CS 161A (programming and problem solving I)?

Yes. However, CS 161A will assume you have the knowledge of CS 160 (exploring computer science), which is an intro to programming class.

OSU Transfer Students: please note that OSU requires CS 160.

Can I skip CS 161A and go directly into CS 161B (programming and problem solving II)?

No. But if you believe you have the background to skip CS 161A and be successful in CS 161B, please go to this link and complete the CS 161B entrance exam.

CS 161B entrance exam link:
https://www.pcc.edu/testing/proctored-exams/cs-161b-entrance-exam/

CS 133G, CS 233G, CS 133U and CS 140U do not transfer into a computer science degree at any of the Oregon Universities