

COMPUTER SCIENCE - EOU / SOU / WOU - TRANSFER - DEGREE

Associate of Science Transfer (AST) in Computer Science

Faculty Adviser

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Computer science is the study of computers, hardware, software design, and the way humans work with technology. Students will study programming in a variety of languages for different purposes. MHCC's program prepares students to transfer to a four-year degree at EOU, SOU, or WOU. Because of the many options for electives, contact your advisor and transfer school for advising.

Students who complete this program will also complete the Oregon Major Transfer Map (MTM) and Core Transfer Map (CTM).

Curricular Outcomes

At the completion of this curriculum, students should be able to:

- Develop software using both structured and object-oriented paradigms that meets the requirements of a written specification.
- Explain the software development lifecycle and the specific tools and processes used to create software.
- Design, analyze, and implement algorithms to solve computational problems using various data structures as problem-solving tools. These data structures must include arrays, stacks, queues, linked lists, trees, and hash tables.
- Communicate effectively in a variety of professional contexts.
- Function effectively as a members or leader of a team engaged in activities appropriate to the programs' discipline.

General education courses (such as math, writing, health, etc.) can be taken during any term, or before starting the program.

Please note:

- Students majoring in Computer Science will need to know their transfer plans early on in order to complete the correct courses.
- This degree aligns with Oregon's Computer Science Major Transfer Map (MTM) (<https://www.oregon.gov/highered/about/transfer/pages/transfer-maps.aspx>) for students planning to transfer to EOU, SOU, or WOU after completion.
- Students who do not place directly into MTH251Z Differential Calculus or higher will need to complete MTH111Z Precalculus I: Functions ★ and/or MTH112Z Precalculus II: Trigonometry before enrolling in computer science courses.
- Please contact the faculty adviser as soon as possible for assistance with course planning.

First Quarter

Fall		Credits
CS160	Computer Science Orientation ★	4
MTH251Z	Differential Calculus	4
WR121Z	Composition I ★	4

Elective / university requirement		3
Credits		15
Second Quarter		
Winter		
CS161	Computer Science I	4
MTH252Z	Integral Calculus	4
WR122Z	Composition II ★	4
Elective / university requirement		4
Credits		16
Third Quarter		
Spring		
COMM111Z	Public Speaking ★	4
CS162	Computer Science II	4
Arts and Letters requirement (https://catalog.mhcc.edu/degree-certificate-requirements/ast-cs-eou-sou-wou/#al)		3-4
Elective / university requirement		4
Credits		16
Fourth Quarter		
Fall		
CS260	Data Structures	4
Arts and Letters requirement (https://catalog.mhcc.edu/degree-certificate-requirements/ast-cs-eou-sou-wou/#al)		3-4
Social Science requirement (https://catalog.mhcc.edu/degree-certificate-requirements/ast-cs-eou-sou-wou/#ss)		3-4
Elective / university requirement		4
Credits		16
Fifth Quarter		
Winter		
Lab science requirement (https://catalog.mhcc.edu/degree-certificate-requirements/ast-cs-eou-sou-wou/#science)		3-5
Social Science requirement (https://catalog.mhcc.edu/degree-certificate-requirements/ast-cs-eou-sou-wou/#ss)		3-4
Elective / university requirement		6
Credits		15
Sixth Quarter		
Spring		
Lab science requirement (https://catalog.mhcc.edu/degree-certificate-requirements/ast-cs-eou-sou-wou/#science)		3-5
Electives, to reach 90 credits		8-10
Credits		12-14
Total Credits		90-92

Transfer Schools

- Eastern Oregon University (<https://www.eou.edu/computer-science/>)
- Southern Oregon University (<https://inside.sou.edu/cs/>)
- Western Oregon University (<http://www.wou.edu/cs/>)

★ Course offered online

🌐 Cultural Literacy course