

## Associate of Science Transfer (AST) – Computer Science

### About the Program

Major Transfer Maps (MTMs) represent a streamlined path for students transferring from an Oregon community college to an Oregon university who know which major/bachelor's degree program they want to pursue. In contrast to other statewide transfer tools that prioritize university general education requirements (i.e. AAOT and ASOT), MTMs specify clear course-taking paths necessary for on-track progress towards a specific major/bachelor's degree, with a guarantee of transfer from any Oregon community college to any Oregon public university. MTMs build on the 30-credit general education foundation defined by the generic Core Transfer Map (CTM), although MTMs may specify particular relevant/required General Education courses as part of the 30-credit CTM component of the MTM. Students must have earned a cumulative grade point average of 2.0 and meet the residency requirements at the community college awarding the MTM.

### Program Learning Outcomes

- 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.

**TOTAL PROGRAM CREDITS**

**90**

**Program email address:**

**[ComputerScienceInfo@rogucecc.edu](mailto:ComputerScienceInfo@rogucecc.edu)**

CORE TRANSFER REQUIREMENTS	
See an advisor for recommended courses before your first term	
Writing	
WR121Z	4
Arts & Letters	
Humanities - Choose from AAOT-approved courses	3-4
Humanities - Choose from AAOT-approved courses	3-4
Social Sciences	
1 <sup>st</sup> course - Choose from AAOT-approved courses	3-4
2 <sup>nd</sup> course - Choose from AAOT-approved courses	3-4

Natural Sciences				
2 courses	Select two lab science courses; this selection should occur after deciding between OSU/PSU/UO and EOU/SOU/WOU clusters			8-10
	<ul style="list-style-type: none"> <li>OSU/PSU/UO: Physics 211-212 OR Chem 221-222 OR Biology 211-212</li> <li>EOU/SOU/WOU: any two lab science courses</li> </ul>			
Mathematics				
2 courses	MATH 111, MATH 112			8
At least 1 Core Transfer Requirement course must also be an AAOT-approved Cultural Literacy Course.				
Core Transfer Requirement Total				31-38
<b>ADDITIONAL MAJOR TRANSFER MAP COURSES</b> See an advisor for recommended courses				
	EOU/SOU/WOU cluster		OSU/PSU/UO cluster	
<b>General Education</b>				
Writing	WR122Z	3-4	WR227Z	3-4
Oral Communication	COMM111	3-4	COMM111Z	3-4
<b>Major Requirements</b>				
Computer Science	CS160, CS161, CS162, CS260	16	CS160, CS161, CS162, CS260 CS205 <sup>2</sup>	16 4-5
Mathematics	MTH251, 252	8	MTH251-252	8
Discrete Math			MTH231-232 or CS250, 251	8
Natural Sciences			Complete sequence done under CTM: PH213, BI 213, or CHEM223	4-5
Additional MTM Courses Total		30-32		46-50
<b>Electives</b>	Elective courses to 90 credits	20-29	Elective courses to 90 credits	2-13
	Major Transfer Map TOTAL	90	Major Transfer Map TOTAL	90

<sup>2</sup>New course that integrates CS271 and CS201 contents.

For more information, contact the Computer Science Department:

Phone.....541-956-7500  
Email .....ComputerScienceInfo@roguecc.edu  
Web address.....www.roguecc.edu/computerscience  
TTY .....Oregon Telecom Relay Service, 711

<https://www.oregon.gov/highered/institutions-programs/ccwd/Documents/Transfer%20MOUs/FINAL%20CS%20MOU%204.28.22.pdf>