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@roguecc.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	
1st course - Choose from AAOT-approved courses	3-4
2nd 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 • OSU/PSU/UO: Physics 211-212 OR Chem 221-222 OR Biology 211-212 • EOU/SOU/WOU: any two lab science courses	8-10		

Mathematics		
2 courses	MTH 111/MTH111Z, MTH 112/MTH112Z	8

At least 1 Core Transfer Requirement course must also be an AAOT-approved Cultural Literacy Course.

Core Transfer Requirement Total	31-38

ADDITIONAL MAJOR TRANSFER MAP COURSES See an advisor for recommended courses				
	EOU/SOU/WOU cluster		OSU/PSU/UO cluster	
General Education				
Writing	WR122Z	3-4	WR227Z	3-4
Oral Communication	COMM111	3-4	COMM111Z	3-4
Major Requirements				
Computer Science	CS160, CS161, CS162, CS260	16	CS160, CS161, CS162, CS260 CS205 [2]	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
Electives	Elective courses to 90 credits	20-29	Elective courses to 90 credits	2-13
	Major Transfer Map TOTAL	90	Major Transfer Map TOTAL	90

[2] 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

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