

MATHEMATICS - ASSOCIATE OF ARTS OREGON TRANSFER (AAOT)

Description

The study of mathematics develops analytic and quantitative skills, which are valuable in today's data-driven economy. The Associate of Arts Oregon Transfer with a focus in mathematics includes courses commonly required for a math major and meets lower-division general education requirements at all Oregon public universities.

A bachelor's degree with a major in math is great preparation for graduate school (such as schools of law, medicine, education, or business) and direct employment in industry, government, research, and business.

Statewide General Education Student Learning Outcomes

Please see the [General Education page](#) for statewide general education student learning outcomes.

Entrance Requirements

While this program has no formal entrance requirements, individual courses may have prerequisites which must be met before enrollment.

Course Requirements

Course	Title	Credits
General Education/Foundational		
<u>Health:</u>		
Choose three credits ¹		3
<u>Mathematics:</u>		
Choose one course		4
Recommend: MTH 251		
<u>Oral Communication:</u>		
Choose one course		3-4
<u>Writing:</u>		
WR 121	Academic Composition	4
WR 122	Argument, Research, and Multimodal Composition	4
	or WR 227 Technical Writing	
General Education/Discipline studies		
<u>Cultural Literacy:</u>		
One course from the following categories must be designated as cultural literacy on the Discipline Studies list (credits count once).		
<u>Arts and Letters:</u>		
Choose three courses from at least two prefixes		9-12
<u>Social Science:</u>		
Choose four courses from at least two prefixes		12-16
<u>Science/Math/Computer Science:</u>		
Choose four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science		12-20
Recommend: MTH 252, PH 211, PH 212, PH 213		
Electives		

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable.

Recommend: MTH 253, MTH 254, MTH 255, MTH 256, MTH 261A ²

Total Credits **90-106**

¹ HHPA activity courses (1 credit each) are not to be duplicated

² Related courses to consider: CIS 120 Computer Concepts, CIS 122 Introduction to Programming, MTH 243 Introduction to Probability and Statistics I, MTH 244 Introduction to Probability and Statistics 2. Note: Some four year colleges require CIS 122 for math majors. See an advisor for details.

Advising Notes

- MTH 256 Applied Differential Equations and MTH 261A Introduction to Linear Algebra are only offered in Fall and Spring term.
- MTH 254 Vector Calculus I is only offered Winter term, and MTH 231 Discrete Mathematics and MTH 255 Vector Calculus II are only offered Spring term.
- PH 211 General Physics I is only offered winter term, PH 212 General Physics II is only offered Spring term, and PH 213 General Physics III is only offered Fall term.

Performance Standards

- Academic Requirements:
 - Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
 - All courses in the program must be completed with a grade of C or higher.

Sample Plan

First Term	Credits
Discipline Studies Arts & Letters	3-4
<u>Oral Communication:</u>	
Mathematics (recommend MTH 251)	4
WR 121 Academic Composition	4
Credits	14-16
Second Term	Credits
Discipline Studies Science/Math/Computer Science (recommend MTH 252)	4
Discipline Studies Science/Math/Computer Science (recommend PH 211)	5
Discipline Studies Social Science	3-4
WR 122 Argument, Research, and Multimodal Composition or WR 227 Technical Writing	4
Credits	16-17
Third Term	Credits
Discipline Studies Science/Math/Computer Science (recommend PH 212)	5

Elective (recommend MTH 253)	4
Elective (recommend MTH 261A)	2
Health (3 credits with HHP or HHPA prefix)	3
Credits	14
Fourth Term	
Discipline Studies Science/Math/Computer Science (recommend PH 213)	5
Discipline Studies Social Science	3-4
Discipline Studies Arts & Letters	3-4
Elective (recommend MTH 256)	4
Credits	15-17
Fifth Term	
Discipline Studies Arts & Letters	3-4
Discipline Studies Social Science	3-4
Elective (recommend MTH 254)	4
Elective	3-4
Elective	3-4
Credits	16-20
Sixth Term	
Discipline Studies Social Science	3-4
Elective (recommend MTH 255)	4
Elective	3-4
Elective	3-4
Elective	3-4
Credits	16-20
Total Credits	91-104