

GEOLOGY - ASSOCIATE OF ARTS OREGON TRANSFER (AAOT)

Description

The Associate of Arts Oregon Transfer with a focus in geology includes courses that are commonly required for a geology major and meets lower-division general education requirements at all Oregon public universities. Note additional coursework in physics, chemistry, and mathematics is needed.

Statewide General Education Student Learning Outcomes

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

Entrance Requirements

While this degree 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 3 credits ¹		3
<u>Mathematics:</u>		
Choose one course		4
Recommend: MTH 111Z or higher ²		
<u>Oral Communication:</u>		
Choose one course		3-4
<u>Writing:</u>		
WR 121Z	Composition I	4
WR 122Z	Composition II	4
or WR 227Z	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
Recommend: ART 143		
<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: CH 221Z & CH 227Z, G 201, G 202, G 203		
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.		39
Recommend: CH 222Z & CH 228Z, CH 223Z & CH 229Z, MTH 112Z, MTH 251Z, MTH 252Z, PH 211, PH 212		

Other courses to consider: G 161, G 298

Total Credits

90-106

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

² Students planning to major in Geology should plan to complete a math course at least through MTH 252Z. Depending on math level placement, the sequence of math courses is MTH 111Z Precalculus I: Functions, MTH 112Z Precalculus II: Trigonometry, MTH 251Z, MTH 252Z .

Advising Notes

Introductory Courses:

For students curious about geology but with a limited science background, G 100 Introduction to Geology, G 147 Violent Earth, and G 169 Field Geology: Exploration of the Pacific Northwest are recommended. G 201 Geology I - The Dynamic Earth is designed for beginning scientists while providing a path into the majors sequence. To explore geology outdoors, choose field-based courses, such as G 161 Field Geology: Study of Landscape Evolution, G 162CV Field Geology: Cascade Volcanoes, G 163 Field Geology: Rivers, Lakes and Springs of Central Oregon, or G 169 Field Geology: Exploration of the Pacific Northwest.

Geology Majors:

Oregon universities with a geology or earth sciences major include [Oregon State University](#), [Portland State University](#), [Western Oregon University](#), and [University of Oregon](#). Requirements vary slightly according to each institution's particular degree program; please follow links above for details.

The sequence of geology courses for majors is: G 201 Geology I - The Dynamic Earth, G 202 Geology II - Earth's Surface, and G 203 Geology III - Earth History.

If students intend to finish their bachelor's degree within two years after transferring, it is strongly recommended to complete math, chemistry, and physics while at COCC. Most universities require:

- At least CH 221Z General Chemistry I & CH 227Z General Chemistry I Laboratory, CH 222Z General Chemistry II & CH 228Z General Chemistry II Laboratory, and sometimes CH 223Z General Chemistry III & CH 229Z General Chemistry III Laboratory
- At least PH 201 General Physics I, PH 202 General Physics II or PH 211 General Physics I, PH 212 General Physics II, and sometimes PH 203 General Physics III or PH 213 General Physics III
- At least MTH 112Z Precalculus II: Trigonometry, MTH 251Z Differential Calculus, MTH 252Z Integral Calculus, and sometimes MTH 253Z Calculus: Sequences and Series

Students are strongly encouraged to contact the appropriate transfer university for the most current requirements of their major and emphasis area.

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 Year

Fall		Credits
Discipline Studies Lab Science (recommend G 201)		4
Discipline Studies Social Science ¹		3-4
Mathematics (recommend MTH 111Z or higher)		4
WR 121Z	Composition I	4
Credits		15-16
Winter		
Discipline Studies Science Lab (recommend G 202)		4
Elective (recommend MTH 112Z)		4
Oral Communication		3-4
WR 122Z or WR 227Z	Composition II or Technical Writing	4
Credits		15-16
Spring		
Discipline Studies Arts & Letters ¹		3-4
Discipline Studies Science Lab (recommend G 203)		4
Discipline Studies Social Science ¹		4
Health ²		3-4
Credits		14-16
Summer		
Elective (consider: G 161)		3
Credits		3

Second Year

Fall		
Discipline Studies Arts and Letters (recommend ART 143) ¹		4
Discipline Studies Social Science ¹		3-4
Discipline Studies Science/Math/Computer Science (recommend CH 221Z & CH 227Z)		5
Elective (recommend MTH 251Z)		4
Credits		16-17
Winter		
Discipline Studies Arts and Letters ¹		3-4
Elective (recommend CH 222Z & CH 228Z)		5
Elective (recommend MTH 252Z)		4
Elective (recommend PH 211)		5
Credits		17-18
Spring		
Discipline Studies Social Science ¹		3-4
Elective (recommend CH 223Z & CH 229Z)		5
Elective (recommend PH 212)		5

Elective (only if needed, consider G 298)

Credits	13-14
Total Credits	93-100

¹ One discipline studies course should be on both the cultural literacy and either the arts and letters or social science lists.

² To meet the health requirement, students have the choice of taking one 3- or 4-credit course from the health list, or taking 3 1-credit HHP or HHPA courses which can be spread over several terms.