

# BIOLOGICAL SCIENCES - ASSOCIATE OF ARTS OREGON TRANSFER (AAOT)

## Description

The Associate of Arts Oregon Transfer degree with a focus in biology is designed for students who wish to transfer to a four-year university to pursue a bachelor's degree in biology. Lower-division coursework in physics, chemistry, biology, and mathematics prepares students to transfer to a four-year university for upper-division biology coursework. Graduates with a Bachelor of Science in Biology from their transfer institution will be well equipped for graduate school and careers in biomedical fields, industry, governmental agencies, and non-governmental organizations requiring a broad-based education in science, mathematics, and communication. Those graduates may enter such fields as conservation or environmental science, science writing, education, botany, forest or marine science, veterinary medicine, agricultural research, pharmaceuticals, human medicine, or other life science careers such as research in microbiology, biotechnology, bio-informatics, or genetics.

## 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
<b>General Education/Foundational</b>		
<u>Health:</u>		
Choose three credits <sup>1</sup>		3
<u>Mathematics:</u>		
Choose one course		4
Recommend: MTH 112Z or higher		
<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	
<b>General Education/Discipline Studies</b>		
<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 chosen 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: BI 221, BI 222, BI 223 and CH 221

### 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 222, CH 223, CH 241, CH 242, CH 243, MTH 251, MTH 252, PH 201, PH 202, PH 203 <sup>2</sup>

### Total Credits

90-106

<sup>1</sup> HHPA activity courses (1 credit each) are not to be duplicated.

<sup>2</sup> Consider completing both Organic Chemistry [CH 241 Organic Chemistry I, CH 242 Organic Chemistry II and CH 243 Organic Chemistry III] and Physics [PH 201 General Physics I, PH 202 General Physics II and PH 203 General Physics III] sequences. Best practice is to complete entire sequence prior to transfer. Speak with your advisor for details.

## Advising Notes

Oregon public universities with a biology major include: Eastern Oregon University, Oregon Institute of Technology, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, Western Oregon University.

BI 221 Principles of Biology: Cells, BI 222 Principles of Biology: Organisms, BI 223 Principles of Biology: Populations, CH 221 General Chemistry I, CH 222 General Chemistry II, and CH 223 General Chemistry III should be completed prior to transfer in order to be prepared for upper-division courses in Biology.

Consider CH 241 Organic Chemistry I, CH 242 Organic Chemistry II, and CH 243 Organic Chemistry III as an alternative to PH 201 General Physics I, PH 202 General Physics II, and PH 203 General Physics III in the electives; see advisor for details.

Oregon State University recommends COMM 111Z Public Speaking, WR 227Z Technical Writing, and HHP 295 Health and Fitness from the recommended foundational curriculum options and CH 241 Organic Chemistry I, CH 242 Organic Chemistry II, CH 243 Organic Chemistry III, MTH 251 Calculus I, and MTH 252 Calculus II from electives options.

University of Oregon recommends WR 122Z Composition II from the recommended foundational curriculum options.

Eastern Oregon University, Portland State University, and Southern Oregon University recommends STAT 243Z Elementary Statistics I as an elective.

## Performance Standards

• Academic Requirements:

• Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.

- Options for additional standards:
  - All courses in the program must be completed with a grade of C or higher.
- Additional Requirements:
  - None

## Sample Plan

First Term		Credits
Mathematics (recommend MTH 112Z or higher)		4
Health (3 credits with HHP or HHPA prefix)		3
WR 121Z	Composition I	4
Discipline Studies Science/Math/Computer Science (recommend CH 221)		5
Credits		16
Second Term		
WR 122Z or WR 227Z	Composition II or Technical Writing	4
Elective (recommend CH 222)		5
Discipline Studies Social Science		3-4
Elective (recommend MTH 251)		4
Credits		16-17
Third Term		
Elective (recommend CH 223)		5
Elective (recommend MTH 252)		4
Oral Communication:		3-4
Discipline Studies Social Science		3-4
Credits		15-17
Fourth Term		
Discipline Studies Lab Science (recommend BI 221)		5
Elective (recommend CH 241 or PH 201)		5
Discipline Studies Arts & Letters		3-4
Discipline Studies Social Science		3-4
Credits		16-18
Fifth Term		
Discipline Studies Lab Science ( recommend BI 222 or BI 223)		5
Elective (recommend CH 242 or PH 202)		5
Discipline Studies Arts & Letters		3-4
Discipline Studies Social Science		3-4
Credits		16-18
Sixth Term		
Discipline Studies Lab Science (recommend BI 222 or BI 223)		5
Elective (recommend CH 243 or PH 203)		5
Discipline Studies Arts & Letters		3-4
Credits		13-14
Total Credits		92-100