BIOLOGY - ASSOCIATE OF SCIENCE TRANSFER DEGREE

Overview

The **Associate of Science Transfer in Biology** (AST–Biology) degree is designed for students intending to transfer to a biology program at an Oregon public university. The curriculum includes foundational coursework in biology and related sciences, along with general education requirements that prepare students for upper-division study.

Completion of the AST–Biology degree also fulfills the statewide Major Transfer Map (MTM) (https://www.oregon.gov/highered/about/transfer/Documents/Transfer-Resources/Transfer%20MOUs/Biology-MTM-CAP.pdf) for Biology and the Oregon Core Transfer Map (CTM) (https://catalog.mhcc.edu/degree-certificate-requirements/oregon-transfer-foundational-curriculum/), supporting efficient transfer and application of credits toward a bachelor's degree.

Refer to the tabs above for additional information about:

- **Requirements** - outlines all courses required for completion of the degree
- **Education Plan** - provides a sample term-by-term sequence of courses
- **Career Info (p.)** - includes information on potential occupations, employment trends, and earnings

Program Requirements

The degree requirements below outline the courses and credit categories required to complete the **Biology AST degree**, including science core and general education requirements. Expand each section to view eligible courses that may be used to fulfill specific requirements.

For a suggested term-by-term sequence, refer to the **Education Plan** tab.

Code	Title	Credits
Science Core, 3 sequences		**45**
Biology Sequence		
BI221Z	Principles of Biology: Cells	
& BI222Z	and Principles of Biology: Organisms	
& BI223Z	and Principles of Biology: Ecology and Evolution	
Chemistry Sequence		
CH221Z	General Chemistry I	
& CH227Z	and General Chemistry I Laboratory	
CH222Z	General Chemistry II	
& CH228Z	and General Chemistry II Laboratory	
CH223Z	General Chemistry III	
& CH229Z	and General Chemistry III Laboratory	
Physics Sequence (choose one)		
PH201	General Physics I	
& PH202	and General Physics II	
& PH203	and General Physics III	
or		
PH211	General Physics with Calculus I	
& PH212	and General Physics with Calculus II	
& PH213	and General Physics with Calculus III	
Mathematics, 2 courses		**8**
MTH111Z	Precalculus I: Functions	
MTH112Z	Precalculus II: Trigonometry	
If math placement is at MTH251Z or higher, choose one of the following sequences:		
MTH251Z	Differential Calculus	
& MTH252Z	and Integral Calculus	
or		
STAT243Z	Elementary Statistics I	
& STAT244	and Elementary Statistics II	
Written Communication, 2 courses		**8**
WR121Z	Composition I	
WR227Z	Technical Writing	
Arts & Letters, 2 courses from AAOT list (must be from two different disciplines)		**6-8**
Arts & Letters AAOT list (https://catalog.mhcc.edu/degree-certificate-requirements/aaot/#arts-letters)		
Social Science, 2 courses from AAOT list (must be from two different disciplines)		**6-8**
Social Science AAOT list (https://catalog.mhcc.edu/degree-certificate-requirements/aaot/#arts-letters)		
Electives, if needed to reach 90 applicable degree credits		**17**
Total Credits		**90**

Recommended Electives for Transfer

- **OIT**: WR122Z Composition II, Additional Social Science, Additional Arts & Letters, Health Biology Course
- **OSU**: CH241 Organic Chemistry I & CH242 Organic Chemistry II
- **PSU**: CH241 Organic Chemistry I, CH242 Organic Chemistry II & CH243 Organic Chemistry III, Additional 200-level Science or Social Science.
- **UO**: CH241 Organic Chemistry I, Additional Arts & Letters, Additional Social Science.

When students complete coursework at more than one Oregon community college, the AST-granting institution will apply transfer courses toward Core Transfer Map and major requirements as intended, based on the approved course lists at the institution where and when the courses were completed.

Career Information

Explore potential careers related to this program, including typical job roles, employment trends, and projected growth. This information can help you better understand how your education may align with future career opportunities.

★ Course offered online
Cultural Literacy course