

BIOLOGY, ASSOCIATE OF SCIENCE TRANSFER

The Associate of Science Transfer - Biology is a degree that SWOCC offers, and that is connected to the State of Oregon Biology Major Transfer Map (MTM). The MTM outlines Oregon community colleges' coursework to complete in order to transfer seamlessly to any Oregon four-year public university to earn a Bachelor of Science (B.S.) in Biology. This program is intended for students who know they want to transfer and earn a B.S. in Biology, but who may be unsure of their intended transfer destination. This program provides students with the foundations needed to transfer to a 4-year institution and complete studies for a bachelor's degree in biology, and possibly beyond.

PROGRAM ENTRY REQUIREMENTS

AST pre-reqs apply: WR90R (Academic Literacy) or college-level placement AND MTH 98 (Math Literacy) or college-level placement. Please give the reason/justification for creating this program. The Biology Major Transfer Map (MTM) for Biology outlines Oregon community colleges' coursework to complete in order to transfer seamlessly to any Oregon four-year public university to earn a Bachelor of Science (B.S.) in Biology. The Associate of Science Transfer - Biology has been created in connection with the state mandated MTM, and in response to recent updates issued by the H.E.C.C., regarding the MTM and the transfer crosswalk document for Biology. This degree provides SWOCC students with one more viable option for transfer to one of the seven public 4-year institutions in Oregon, to complete a bachelor's degree.

PROGRAM OUTCOMES

At the completion of this curriculum, students should be able to:

- Fulfill the student learning outcomes for an AST degree.
- Participate in recommended science courses that could include introductions to biology in preparation for transfer into a biology Bachelor's degree program or related.
- Use basic principles, identify and understand the foundations of biology.
- Critical Thinking: Collect and analyze data using classical methods and modern instrumentation and evaluate experimental results using the principles of the scientific method.
- Information Literacy: Locate, summarize, and critique scientific articles, as well as synthesize scientific information from various sources to communicate the results of their own experiments.

In addition to Program Outcomes, standards have been established for Student Learning Outcomes in General Education Courses in the following categories: Arts and Letters, Cultural Literacy, Mathematics, Science or Computer Science, Social Science, Speech and Oral Communication, Writing, and Information Literacy. Coursework in each of these areas supports student achievement of these outcomes.

Course	Title	Credits
Prerequisites		
MTH95	Intermediate Algebra (or college level placement)	4

WR90R	Academic Literacy (or college level placement)	4
Credits		8
Total Credits		8

Course	Title	Credits
First Year		
Fall		
BI221Z	Principles of Biology: Cells	5
CHEM221Z	General Chemistry I	4
CHEM227Z	General Chemistry I Laboratory	1
MTH111Z	Pre-Calculus	4
WR121Z	Composition I	4
Credits		18

Winter		
Arts and Letters Course ¹		3-4
BI222Z	Principles of Biology: Organisms	5
CHEM222Z	General Chemistry II	4
CHEM228Z	General Chemistry II Laboratory	1
WR227Z	Technical Writing	4
Credits		17-18

Spring		
BI223Z	Principles of Biology: Ecolo/Evolut	5
CHEM223Z	General Chemistry III	4
CHEM229Z	General Chemistry III Laboratory	1
HE250	Personal Health ²	3
MTH112Z	Precalculus II: Trigonometry	4
Credits		17

Second Year		
Fall		
Cultural Literacy Course ³		3-4
MTH251Z	Differential Calculus	4
PH201	General Physics I: Mechanics	5
or PH211	or General Physics with Calculus I	
Social Science Course ⁴		3-4
Credits		15-17

Winter		
Arts and Letters Course ¹		3-4
MTH252Z	Integral Calculus	4
PH202	General Physics II: Heat, Waves, Relativity	5
or PH212	or General Physics with Calculus II	
Credits		12-13

Spring		
PH203	Gen Physics III: Elect & Magnetism	5
or PH213	or General Physics with Calculus III	
Social Sciences Course		3-4
Elective (or university requirement to reach 90 credits)		6-8
Credits		14-17
Total Credits		93-100

¹ Select from MUS205, 206, PHL 102, 103 or ART204, 205, 206, 253, 256 or COMM100Z, 111Z, 218Z or ENG106Z, 109, 104Z, 105Z, 253, 254, 255

² or Health, Wellness, and Fitness Course from the AAOT list

³ At least 1 Core Transfer Requirement course must also satisfy Cultural Literacy outcomes for AAOT. Select from list below.

⁴ Select from PS201, 202, 203 or PSY201Z, 202Z, 237, 239, 243 or SOC205Z, 206Z, 208, 213, ANTH 222, 223

AAOT CULTURAL LITERACY COURSES

Code	Title	Credits
ANTH201	Physical Anthropology and Evolution	3
ANTH202	Introduction to Archaeology	3
ANTH203	Language and Culture	3
ANTH221	Intro to Cultural Anthropology	3
ANTH222	Cultural Anthropology II	3
ANTH223	Cultural Anthropology III	3
ANTH224	Intro to Medical Anthropology	3
ANTH230	Native North Americans: Oregon	3
ANTH231	Native North Americans: PNW	3
ANTH232	Native North Americans	3
ENG107	World Literature	3
ENG108	World Literature	3
ENG109	World Literature	3
GEOG105	Cultural Geography	3
HDFS140	Contemporary American Families	3
HUM204	World Mythology & Religion	3
HUM205	World Mythology & Religion	3
HUM206	World Mythology & Religion	3
HST104	History of the Middle East	3
MUS205	Intro to Jazz History	3
MUS206	Intro to History of Rock and Roll	3
PSY216	Social Psychology	3
PSY231	Human Sexuality	3
SOC208	Sociology of Sport	3
SOC210	Marriage and Family	3
SOC213	Racial and Ethnic Relations	3
SOC218	Sociology of Gender	3
COMM220	Gender And Communication	4