**ASSOCIATE OF SCIENCE DEGREE**

**(BIOLOGY SPECIALIZATION)**

(AS-T Transfer Degree)

Advisors: Heather Cushman, 566-5368 and [Ken Cushman](https://www.tacomacc.edu/directory/kcushman) 253-566-5301.

Students may complete the first two years of a Bachelor’s Degree in Biology at Tacoma Community College. The program of studies listed below leads to the Associate of Science-Biology Specialization. Upon completion of this degree, students may be able to transfer to most four-year colleges and universities as juniors.

This degree is most suitable for students who are interested in transferring to a four-year college or university to major in pre-medicine, pre-veterinary science, molecular biology, genetics, or microbiology. Students interested in general biology, wildlife science, botany, forestry, zoology, or similar programs in the natural sciences should also consider following the plan that leads to an Associate of Arts in Biology degree. An advisor can help determine which degree is most appropriate.

Although members of the biology department make every effort to consult with various colleges and universities regarding requirements, students are encouraged to consult catalogs, websites and advisors at their chosen four-year institution during their freshman year especially when deciding which biology degree plan to follow and which electives to take.

Students should work closely with advisors when selecting their elective, social science, and humanities courses because different bachelor’s degrees in the natural sciences may have specific requirements in those distribution areas. For example, many BS degrees require a year of physics (PHYS& 114, 115, and 116 or PHYS& 221, 222, and 223). Some students defer taking physics until the junior year. Others find they are better prepared for upper division coursework if they complete physics as an elective before transferring.

**Preparation**: While in high school, students should pursue all the available courses in mathematics, chemistry, biology and physics.

**Program Planning:** Students should meet with an advisor as soon as they are admitted to Tacoma Community College. Many courses have prerequisites, are offered only once or twice a year, and are sequential. Careful selection of classes each quarter is necessary to complete the program without delay.

# EXAMPLE SCHEDULE

# First Year

## Fall Winter Spring

CHEM& 161 CHEM& 162 CHEM& 163

MATH& 151 MATH& 152 MATH& 153 or MATH& 146

BIOL&160 Humanities (Multicultural) BIOL& 221\*

# Second Year

## Fall Winter Spring

BIOL& 222 ENGL& 101 Social Sciences

CHEM& 261 CHEM& 262 CHEM& 263

Elective BIOL& 223 Humanities or Social Sciences

\*BIOL&221 starts the majors bio sequence and is currently offered Fall and Spring.

* **Some students may need to take additional prerequisite courses.**
* The Humanities and Social Science courses must be selected from the **Approved Distribution Course List**.
* At least one course applied to the degree must be from the list of approved Multicultural courses on the **Approved Distribution Course List**.
* Elective credits should be planned in consultation with a biology advisor. Electives allow students to include additional courses to prepare for the biology major based on transfer college selection. For example, many BS degrees in biology require from two to three quarters of physics and some students find it better to complete those courses before transferring to a four-year college or university.
* A maximum of 3 PE activity credits can be used towards electives.
* A maximum of 5 credits of electives can be from courses that do not appear on the **Approved Distribution Course List** under the categories of Communication, Quantitative/Symbolic Reasoning, Humanities, Social Sciences, Natural Sciences, or General Distribution Courses. Such courses must be approved by a biology advisor.

 [University of Washington, College of Arts & Sciences, Biology Program](https://www.biology.washington.edu/programs/undergraduate)

 318 Hitchcock Hall (206) 543-9210

 [Washington State University: College of Sciences, School of Biological Sciences](http://sbs.wsu.edu/)

 Abelson Hall, Room 312 (509) 335-3553

 [Western Washington University, College of Arts and Sciences, Biology Department](http://www.biol.wwu.edu/biology)

 Biology Building 3I 315 (360) 650-3627

 [Washington State University Vancouver Science Programs, Biology](http://cas.vancouver.wsu.edu/biology)

 Engineering/Life Sciences VELS 230 (360) 546-9620

 [University of Puget Sound - Biology](http://www.pugetsound.edu/academics/departments-and-programs/undergraduate/biology)

Thompson Hall 223A (253) 879-3121

 [Pacific Lutheran University, Biology](http://www.plu.edu/biology)

 Rieke Science Center Room 159 (253) 535-7561

 [Central Washington University - Department of Biological Sciences](https://www.cwu.edu/biology/)

 Science Building Room 338 (509) 963-2731

[The Evergreen State College - Biology](http://www.evergreen.edu/studies/biology)

Library 1200 (360) 867-6170

[Seattle Pacific University - Biology](http://www.spu.edu/depts/biology)

Science Building (SCI) (206) 281-2351

[Seattle University College of Science and Engineering - Biology](http://www.seattleu.edu/scieng/biology/)

Bannan 150 (206) 296-5490

[St Martin's University - Biology](https://www.stmartin.edu/academics/programs-schools/college-arts-sciences/areas-of-study/biology)

Old Main 256 (360) 438-4311

[Eastern Washington University - Biology](http://www.ewu.edu/CSHE/Programs/Biology.xml)

238 Science Building (509) 369-2339