

**TILLAMOOK BAY COMMUNITY COLLEGE**  
**TRANSFER GUIDE FOR *MICROBIOLOGY* AND**  
***BIOHEALTH SCIENCES* MAJORS**  
**Majors in the Department of Microbiology**



**Microbiology**

Microbiologists study the diverse properties and roles of microbes with respect to human and environmental health. These organisms include bacteria, archaea, phytoplankton, zooplankton, parasites and fungi and viruses.

Microbiology graduates have careers in basic research, health professions, industry, agriculture, environment, and food science.

**BioHealth Sciences**

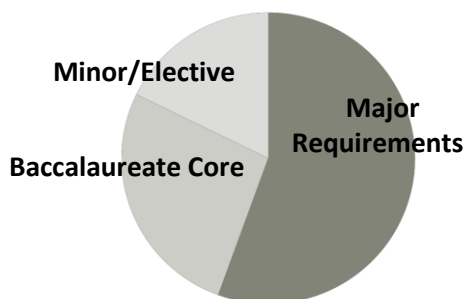
The BioHealth Sciences major is for students pursuing health profession careers. The curriculum contains most of the prerequisites required by professional schools. Students may declare one of the BHS options.

Admission to professional schools is competitive and completing the BHS coursework does not guarantee acceptance. Successful applicants have A's and B's in their science and math coursework along with community service in health care and/or research experience.

**BioHealth Sciences Options**

- Pre-Clinical Laboratory
- Pre-Dentistry
- Pre-Medicine/Podiatry
- Pre-Optometry
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Physician Assistant

**Your Bachelor's Degree in the OSU College of Science:**



- A minimum of 180 credits are required for graduation. 60 must be upper division (300 and 400-level courses).
- A maximum of 124 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 can be accepted.
- See OSU Catalog for a list of courses required for your major and option: <http://catalog.oregonstate.edu/DegreeSearcher.aspx?formstate=undermajors>

**Courses for these Majors:** (offered at the community college)

**Mathematics, General Chemistry, and some Baccalaureate Core are priority courses to complete before transferring to OSU.** For BHS major, Anatomy and Physiology courses (if required by option) should be completed at OSU, not at the community college.

Requirement	TBCC Equivalent	OSU Courses for Microbiology Majors	OSU Courses for BioHealth Sciences Majors
Mathematics	MTH 111, MTH 112, MTH 251, MTH 252	MTH 251, MTH 252	Two MTH courses of MTH 111 or higher (Math requirements differ by option)
<i>Depending on math placement, students may need to take math courses prior to MTH 251 (e.g., MTH 111, 112, or others). Please speak to your TBCC advisor. The OSU Math Department enforces prerequisites of C- or better for all Math courses in order to move on to higher level Math courses.</i>			
General Chemistry	CH 221, 222, 223	CH 231/261, 232/262, 233/263 <sup>^</sup>	CH 231/261, 232/262, 233/263 <sup>^</sup>
<i>Students need a C- or higher in the Chemistry 200-series (OSU or transfer) before moving on to upper division (300-400 level) Chemistry courses.</i>			
<i><sup>^</sup>Lecture and lab for General Chemistry have separate course numbers at OSU (Lecture/Lab).</i>			
Principles of Biology	BI 211, 212, 213**	BI 211, 212, 213**	BI 211, 212, 213**
<i>**Students should take the entire series at either TBCC or OSU. Do not split series between schools.</i>			
<i>Students need a C- or higher in BI 211, 212, &amp; 213 (OSU or transfer) before moving on to upper division (300-400 level) Biology &amp; Zoology courses.</i>			
Physics	PHY 201, 202, 203	PH 201, 202, 203	PH 201, 202, 203
Psychology	PSY 201A and 202A	Psychology not required	PSY 201 and 202
Statistics	MTH 243	Take ST 351 at OSU; no community college equivalent	ST 201 or ST 351

## General Education Courses: (called the Baccalaureate Core)

- Complete one course in each Perspectives category with no more than two in the same department.
- The Oregon AAOT satisfies all lower division requirements of the Baccalaureate Core (all **but** Synthesis Courses<sup>†</sup>).
- The College of Science allows courses to double count between your major and the Baccalaureate Core.
- See Baccalaureate Core transfer guide\* for specific community college courses meeting these requirements: <http://oregonstate.edu/admissions/main/baccalaureate-core-course-equivalencies>

<b>SKILLS COURSES</b>	Math	Completed as part of major. Required to transfer.
	Writing I	WR 121. Required to transfer.
	Writing II	Many options, see transfer guide*
	Speech (Writing III)	Many options, see transfer guide*
	Fitness	HE 295 and PE 295
<b>PERSPECTIVES COURSES</b>	Biological Science	Completed as part of major
	Physical Science	Completed as part of major
	2nd Biological or Physical Science	Completed as part of major
	Cultural Diversity	Many options, see transfer guide*
	Literature and the Arts	Many options, see transfer guide*
	Social Processes and Institutions	Many options, see transfer guide*
	Western Culture	Many options, see transfer guide*
<b>DPD COURSE</b>	Difference, Power, & Discrimination	Many options, see transfer guide*
<b>SYNTHESIS COURSES<sup>†</sup></b>	Contemporary Global Issues	Upper division course, take at OSU
	Science, Technology, & Society	Upper division course, take at OSU

## Important Notes and Resources:

- For science students, the best time to transfer is fall term, particularly due to the science series courses. Talk with an OSU advisor about your specific timeline.
- Students do not have to complete a transfer degree in order to transfer to OSU. Following the sample two-year plan below can help ease the transfer.
- Preparing to apply to OSU? See admissions info: <http://oregonstate.edu/admissions/transfer.html>
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: <http://oregonstate.edu/partnerships/students>

## Example Two-Year Transfer Plan:

This is one possible plan based on full-time attendance. See your community college academic advisor to create your personalized plan.

	Fall Term	Winter Term	Spring Term
<b>Year 1</b>	Math General Chemistry WR 121	Math General Chemistry Bacc Core	Math General Chemistry Bacc Core
<b>Year 2</b>	Math (if needed) or Bacc Core Principles of Biology Physics	Math (if needed) or Bacc Core Principles of Biology Physics	Math (if needed) or Bacc Core Principles of Biology Physics

## Advising Contacts:

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first, and use this Transfer Guide to help you plan.** Also, consider visiting OSU to take a campus tour and meet with an advisor. See <http://oregonstate.edu/visitosu/tour> to schedule your personalized visit.

<b>Tillamook Bay Community College</b>	<a href="http://www.tbcc.cc.or.us/index.php/getting-started-new-student-at-tbcc/academics/academic-advising">http://www.tbcc.cc.or.us/index.php/getting-started-new-student-at-tbcc/academics/academic-advising</a>
<b>OSU Microbiology OSU BioHealth Sciences</b>	Dr. Linda Bruslind, 541-737-1842, bruslindl@oregonstate.edu
<b>OSU College of Science</b>	541-737-4811, science@oregonstate.edu