

Major Offered Through:

CORVALLIS

**Tillamook Bay
Community College**

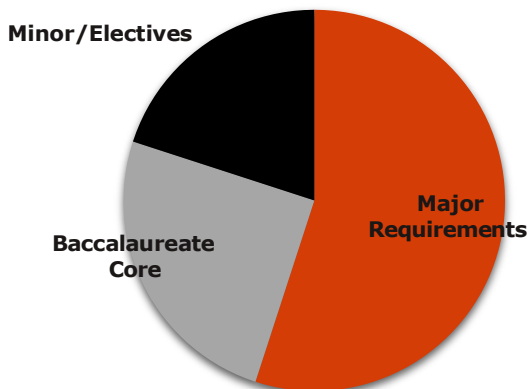
Microbiology

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. The major consists of a comprehensive core with a strong biological and physical science foundation combined with select fundamental courses in microbiology, followed by the completing of a number of upper division microbiology courses selected by each student based on their specific interests. Microbiology graduates go on to careers in basic research, health professions, industry, agriculture and the environment, and food science.

Microbiology Options

- Aquatic Microbiology
- Pre-Medicine

Your Bachelor's Degree (BS) in the 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 135 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.
- Some courses can count towards your major and the Baccalaureate Core. Check with your advisor.
- Options available. See "Important Notes".
- See the OSU Catalog for a list of courses required for your major and option: catalog.oregonstate.edu

Courses for this Major (offered at Tillamook Bay Community College)

Priority courses to complete before transferring are distinguished by ^P

Requirement	TBCC Course	OSU Courses for Microbiology Majors	Notes
Mathematics ^P	MTH 111Z, 112Z, 251, 252	MTH 111Z, 112Z, 251, 252	Math placement determines where students begin in math. Please speak to your TBCC advisor.
Chemistry	CH 221, 222, 223	CH 231/261, 232/262, 233/263	Lecture and lab for Chemistry have separate course numbers at OSU.
Principles of Biology	BI 221, 222, 223	BI 221, 222, 223	

Important Notes & Resources

Important Notes for the College and Major:

- Grade requirements: C- or better in all lower division math, biology, and chemistry coursework
- See a sample degree plan by searching "Microbiology" at admissions.oregonstate.edu/find-your-major
- Options are not required but interested students can select from: Aquatic Microbiology and Pre-Medicine
- Other similar majors to explore: BioHealth Sciences, Biology, Biochemistry & Molecular Biology, Biochemistry & Biophysics, and Zoology.
- Math, Chemistry and some Baccalaureate Core are priority courses to complete before transferring to OSU.
- For Microbiology students, the best time to transfer is fall term, particularly due to the required three term science series courses.
- It is important to speak with a College of Science Advisor early on, and often, to ensure correct course selection and sequencing.

Resources and OSU Information:

- Students do not have to complete a transfer degree in order to transfer to OSU.
 - If you've completed the Oregon AAOT, all requirements of the Baccalaureate Core are complete except for Synthesis Courses and Writing Intensive Courses.
- Preparing to apply to OSU? See admissions info: oregonstate.edu/admissions/transfer.html
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: partnerships.oregonstate.edu/students
- Visit OSU for a campus tour and meet with an advisor; schedule your visit at visitosu.oregonstate.edu/visit-campus

General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspectives category with no more than two in the same department.
- For full listing of courses that fulfill Baccalaureate Core, please refer to <https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-tillamook-bay-community-college>

SKILLS COURSES	Math Writing I Writing II Speech Fitness	Completed as part of major. WR 121Z. Required to transfer. Many options, see BaccCore link above Many options, see BaccCore link above HPE 295
PERSPECTIVE COURSES	Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture	Many options, see BaccCore link above Completed as part of major Completed as part of major Many options, see BaccCore link above Many options, see BaccCore link above Many options, see BaccCore link above Many options, see BaccCore link above
DPD COURSE	Difference, Power, & Discrimination	Many options, see BaccCore link above
SYNTHESIS COURSES	Contemporary Global Issues Science, Technology, & Society	Upper division course, take through OSU Upper division course, take through OSU

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 visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

Advising Contacts & Resources

Tillamook Bay Community College	https://tillamookbaycc.edu/getting-started/advising/
College of Science Transfer Questions	COS-TransferQuestions@oregonstate.edu
COS Science Success Center	sciencesuccess@oregonstate.edu , 541-737-3854
OSU Microbiology Website	https://microbiology.science.oregonstate.edu