Major Offered Through:

CORVALLIS

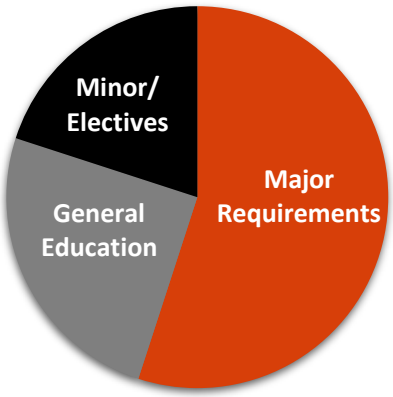
Clackamas Community College

Microbiology

Microbiologists study the diverse properties and roles of microbes with respect to human and environmental health. These organisms include bacteria, archaea, 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 Option
- 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 transfer credits may be applied toward a bachelor's degree at OSU.
- Only courses with letter prefixes and numbers above 100 can be accepted.
- 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 Clackamas Community College])

This list is comprehensive. Speak with an OSU advisor for more information.

Priority courses to complete before transferring are distinguished by [P]

Microbiology Core Requirement	CCC Equivalent Course	OSU Courses	Notes
Mathematics [P]	MTH 111Z, 112Z, 251Z, 252Z	MTH 111Z, 112Z, 251Z, 252Z	Math placement determines where students begin in math. Please speak to your CCC advisor.
General Chemistry [P]	CH 221Z/227Z, 222Z/228Z, 223Z/229Z	CH 221Z/227Z, 222Z/228Z, 223Z/229Z	
Principles of Biology [P]	BI 221Z, 222Z, 223Z	BI 221Z, 222Z, 223Z	Courses in Biology sequence now transfer course by course. Prior BI 211, 212, 213 - need full year to transfer.
Physics	PH 201, 202, 203	PH 201, 202, 203	
Organic Chemistry	CH 241, 242, 243	CH 331, 332, 337	Must pass the ACS organic exam offered as part of CCC course to receive upper division credit: https://chemistry.oregonstate.edu/undergraduate/transfer- students/organic-chemistry-transfer-policies

Important Notes & Resources

Important Notes for the College and Major:

- See a sample degree plan here: Microbiology Sample Plan.
- Option is not required but interested students can select Pre-Medicine.
- Other similar majors to explore: BioHealth Sciences, Biology, Biochemistry & Molecular Biology, Biochemistry & Biophysics, and Zoology.
- Math, Chemistry, Biology and some Core Education 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. Talk with an OSU transfer advisor about your specific timeline.
- It is important to speak with a College of Science transfer 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 or ASOT, all lower division Core Ed requirements are considered complete.
- If you've completed to CTM (Core Transfer Map) or an MTM (Major Transfer Map), all lower division Core Ed requirements are considered complete except Difference, Power and Oppression Foundations.
- Preparing to apply to OSU? See admissions info: transfer.oregonstate.edu/applying-oregon-state-university
- 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
- Find more transfer student resources at transfer.oregonstate.edu.

Core Education Requirements

- Please note, Core Education ("Core Ed"), include the general education requirements for students admitted to OSU Summer 2025 and onward. Students admitted Spring 2025 and earlier should refer to the Baccalaureate Core and/or their advisor for guidance.
- For full listing of courses that fulfill Core Education requirements, please refer to https://transfer.oregonstate.edu/oregon-and-hawaii-course-articulations and search for the Oregon CC you are attending.

FOUNDATIONAL CORE	Writing Foundations	WR 121Z
	Arts and Humanities: General	Many options, see Core Ed link above
	Arts and Humanities: Global	Many options, see Core Ed link above
	Quantitative Literacy and Analysis	Completed as part of the major
	Communication, Media and Society	COMM 111Z or COMM 218Z
	Social Science	Many options, see Core Ed link above
	Scientific Inquiry and Analysis (2 courses)	Completed as part of the major
	Difference, Power and Oppression Foundations	Many options, see Core Ed link above
SIGNATURE CORE	Transitions	
	Difference, Power and Oppression Advanced	Completed as part of the major
	Seeking Solutions	Many options, see Core Ed link above
	Writing Elevation	Many options, see Core Ed link above
	Writing Intensive Curriculum	Completed as part of the major

Advising Contacts

It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing.

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 meeting with an OSU transfer advisor (see email below) and visiting OSU to take a campus tour. See visitosu.oregonstate.edu/visit-campus to schedule your visit.

Clackamas Community College advising	https://www.clackamas.edu/academics/academic-support/academic-advising-and-education-planning
College of Science Transfer Questions	COS-TransferQuestions@oregonstate.edu
College of Science Science Success Center (for general questions)	sciencesuccess@oregonstate.edu 541-737-3854
OSU Microbiology Website	https://microbiology.oregonstate.edu/