

Major Offered Through:

CORVALLIS

Treasure Valley Community College

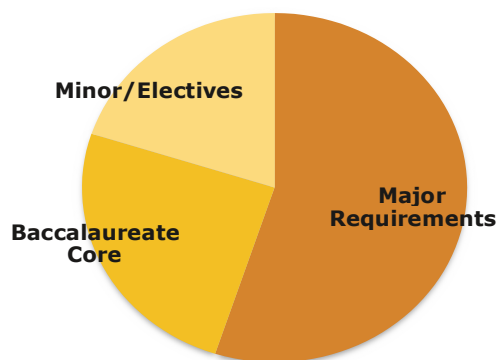
Biochemistry & Biophysics

Biochemistry & Biophysics provides a degree path centered on the chemistry and physics of life processes with training that integrates the principles of chemistry, physics, mathematics, statistics, biochemistry, cell and molecular biology, and biological sequence analysis. Biochemists explore the chemical structure of living matter and the chemical reactions occurring in living cells. Biophysicists use the methods of physical science to study the structure and function of macromolecules. Biochemistry and Biophysics majors receive excellent training for careers in medicine and related health professions, biotechnology and pharmaceutical industries, or for graduate study. Completion of an option is **required** to earn a degree in Biochemistry & Biophysics.

Biochemistry & Biophysics Options*
(*option required)

- Advanced Biophysics
- Neuroscience
- 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 Treasure Valley Community College)

Priority courses to complete before transferring are distinguished by ^P

| Requirement | TVCC Course | OSU Courses for Biochemistry & Biophysics Majors | Notes |
|--------------------------------|---|--|--|
| Mathematics ^P | MATH 111, MATH 112, MATH 251, MATH 252, | MTH 111, MTH 112, MTH 251, MTH 252 | Math placement determines where students begin in math. Please speak to your TVCC advisor |
| General Chemistry ^P | CHEM 221, 222, 223 | CH 231/261, 232/262, 233/263 | Lecture & lab for Chemistry have separate course numbers at OSU |
| Principles of Biology | BIOL 211, 212, 213 | BI 221, 222, 223 | Students should take the entire series at either TVCC or OSU. Individual terms do not match between the two schools. |
| Physics | PHYS 211, 212, 213 | PH 211, 212, 213 | |
| Organic Chemistry | CHEM 227, 228, 229 | CH 331, 332, 337 | Must pass the ACS organic exam offered as part of TVCC course to receive upper division credit: https://chemistry.oregonstate.edu/content/organic-chemistry-transfer-policies#UGOCCC |



Oregon State
University

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 "Biochemistry and Biophysics" at admissions.oregonstate.edu/find-your-major
- Option required. Select from: Advanced Biophysics, Neuroscience, and Pre-Medicine
- Other similar majors to explore: Biochemistry and Molecular Biology and Biology with a Genetics option • Math, Chemistry and some Baccalaureate Core are priority courses to complete before transferring to OSU.
- For Biochemistry & Biophysics 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-treasure-valley-community-college>

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| SKILLS COURSES | Math Writing I Writing II Speech Fitness | Completed as part of major. WR 121. 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 | Completed as part of major 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

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| Treasure Valley Community College | https://www.tvcc.cc/advising/index.cfm |
| College of Science Transfer Questions | COS-TransferQuestions@oregonstate.edu |
| COS College of Science Main Office | sciencesuccess@oregonstate.edu , 541-737-4811 |
| OSU Biochemistry & Biophysics Website | https://biochem.oregonstate.edu |