

Major Offered At:

CORVALLIS

**Umpqua
Community College**

BioResource Research

BioResource Research students acquire research experience and broadly based knowledge in interdisciplinary fields of agricultural, environmental, food, health and forest sciences.

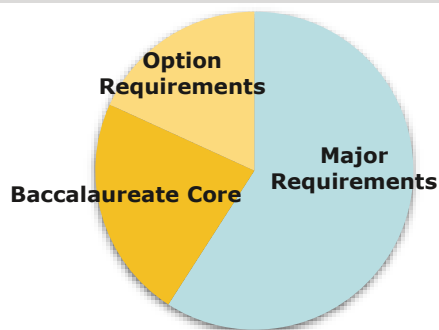
Many become industrial or academic research professionals in science. Others will enter graduate and professional schools in the life sciences or become secondary school science teachers.

Students take science core courses, complete an option in the FANH (Food, Agriculture, Natural resources, and Human) sciences, and do a research project of their choice under the guidance of a faculty mentor.

Students must select one option below:

- Animal Reproduction and Development
- Applied Genetics
- Bioproducts and Bioengineering
- Climate and Biosystems Modeling
- Environmental Chemistry
- Food Quality
- Genomics/Bioinformatics
- Pest Biology and Management
- Plant Growth and Development
- Sustainable Ecosystems
- Toxicology
- Water Resources

Your Bachelor's Degree (BS) in BioResource Research



- 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 are accepted.
- More info at: agsci.oregonstate.edu/brr.

Courses Required for BioResource Research Major

| BRR Core Requirements List is not comprehensive. Contact an OSU advisor for more information. | Umpqua Equivalent Course | OSU Course | Notes |
|--------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biology Principles of Biology | BI 211 BI 212 BI 213 | BI LD2 BI LD2 BI LD2 | Only select one full series (either all 211-213 or all of 221-223) OSU now only offers BI 221-223. If taking BI 211-213, you must take entire series at Umpqua CC. Refer to https://admissions.oregonstate.edu/ld1-and-ld2-explained to learn more about BI LD2 equivalency. |
| Principles of Biology | ---- ---- | BI 221 BI 222 BI 223 | |
| General Chemistry | CH 221 CH 222 CH 223 | CH 231/261 CH 232/262 CH 233/263 | Lecture & lab for 200-level Chemistry have separate Course numbers at OSU |
| Organic Chemistry | CH 241 CH 243 CH 242 | CH 332 CH 333 CH 337 | Must pass the ACS organic exam offered as part of UCC course to receive upper division credit: chemistry.oregonstate.edu/content/organic-chemistry-transfer-policies#UGOCCC |
| Mathematics | MTH 251 MTH 252 | MTH 251 MTH 252 | |
| General Physics | PH 201 PH 202 | PH 201 PH 202 | |

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|---------------|--------|-------------|------------------------------------------|
| | PH 203 | PH 203 | |
| Ethics | -- | PHL 205 | Available online at OSU |
| Writing | WR 227 | WR 327 (LD) | (LD): Transfers as lower division credit |
| Communication | SP 111 | COMM 111 | |

General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of Umpqua CC courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college

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| SKILLS COURSES | Math Writing I Writing II Speech (Writing III) Fitness (HHS 231 and 241) | Completed as part of major WR 121. Required to transfer. Completed as part of major Completed as part of major 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 Choose one course from BaccCore link above Choose one course from BaccCore link above Choose one course from BaccCore link above Completed as part of major |
| DPD COURSE | Difference, Power, & Discrimination | Choose one course from BaccCore link above |
| SYNTHESIS COURSES | Contemporary Global Issues Science, Technology, & Society | Upper division course, take through OSU Upper division course, take through OSU |

Important Notes & Resources

- See a [sample degree plan](#) by searching "BioResource" in the OSU Catalog at catalog.oregonstate.edu. Or find a sample degree plan on the Agricultural Sciences Degree Fact Sheet agsci.oregonstate.edu/degree-fact-sheet/bioresource-research
- BioResource Research offers 14 options which allow students to specialize in a specific area. Our options allow you to address the most important global challenges such as climate change, food security/quality and nutrition, safe water, world health, environment and habitat conservation, and sustainability. More details can be found by searching "BioResource Research" in the OSU Catalog at catalog.oregonstate.edu or by visiting the [BioResource Research website](https://bioresource.oregonstate.edu) at <https://agsci.oregonstate.edu/brr>
- Level 100/200 and lower division Baccalaureate Core are priority courses to complete before transferring to OSU.
- For BioResource Research students, the best time to transfer is fall term. Talk with an OSU advisor about your specific timeline.
- It is important to speak with the BioResource Research advisor, [Wanda Crannell](#), early on, and often, to ensure correct course selection and sequencing. Wanda can be reached at wanda.crannell@oregonstate.edu.

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 transfer student admissions info: transfer.oregonstate.edu
- 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

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.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

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| Umpqua Community College | umpqua.edu/areas-of-study/transfer-education |
| OSU College of Agricultural Sciences Student Advisor | Wanda Crannell 541-737-2999 Wanda.crannell@oregonstate.edu |

OSU College of Agricultural Sciences prohibits discrimination in all its programs, services, activities, and materials.