

Major Offered Through:

CORVALLIS

**Umpqua
Community College**

Mathematics

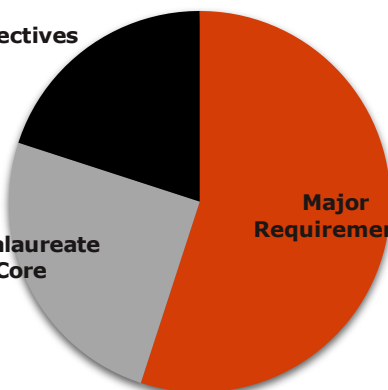
Mathematicians study quantities, magnitudes, and forms. They construct mathematical models of both scientific and manmade processes, which helps us to predict future events and patterns. Students are trained to think logically and precisely and exposed to many areas of pure and applied mathematics. Mathematics students are well prepared for graduate school, careers in industry or research where mathematics plays a pivotal role. Grounding in pure or abstract mathematics gives students the analytical and problem-solving skills that industry demands.

Mathematics Options

- Applied and Computational Mathematics
- Mathematical Biology
- Secondary Teaching Emphasis
- Statistics

Your Bachelor's Degree (BS) in the College of Science

Minor/Electives



- 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 Umpqua Community College)

Priority courses to complete before transferring are distinguished by ^P

| Requirement | UCC Course | OSU Courses for Math Majors | Notes |
|--------------------------------|---|---|---|
| Mathematics ^P | MTH 251 MTH 252 MTH 253 MTH 254 MTH 256 | MTH 251 MTH 252 MTH 253 MTH 254 MTH 256 | Math placement determines where students begin in math. Please speak to your UCC advisor. |
| Physics ^P | PH 211 | PH 211 | |
| Two Terms of a Sequence Course | Physics, Chemistry, Biology, or Geology | Physics, Chemistry, Biology, or Geology | Completing PH 211 & 212 is strongly recommended to meet this requirement. |
| Additional Science Requirement | Chemistry, Biology, or Geology | Chemistry, Biology, or Geology | 7-8 additional science credits are required for Math majors. At least one biological science course is recommended (see back for more information). |



Important Notes & Resources

Important Notes for the College and Major:

- Grade requirements: C- or better in all lower division math and science coursework
- See a sample degree plan by searching "Mathematics" at admissions.oregonstate.edu/find-your-major
- Option available to select from: Applied and Computational Mathematics, Mathematical Biology, Secondary Teaching Emphasis, Statistics
- Other similar majors to explore: Physics, Engineering, and Economics
- Math, Chemistry and some Baccalaureate Core are priority courses to complete before transferring to OSU.
- It is **required** for Mathematics majors to take two courses from a sequence in one of the following subjects: Physics (**strongly recommended**), Biology, Chemistry, or Geology.
- 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-umpqua-community-college>

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| SKILLS COURSES | Math Writing I Writing II Speech Fitness | Completed as part of major. WR 121Z. Required to transfer. WR 227Z 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

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| Umpqua Community College | https://umpqua.edu/academics/academic-resources/academic-advising/ |
| College of Science Transfer Questions | COS-TransferQuestions@oregonstate.edu |
| COS Science Success Center | sciencesuccess@oregonstate.edu , 541-737-3854 |
| OSU Mathematics Website | https://math.oregonstate.edu |