

Major Offered Through:

CORVALLIS

## Central Oregon Community College

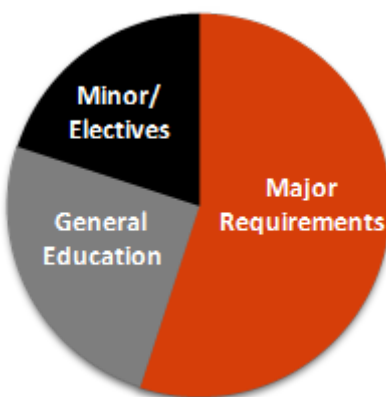
### Physics

Physics is the science that studies the nature of things- the fundamental structure of matter and the interaction of its parts. Physicists seek first to understand the way in which the most elementary systems in nature operate. OSU's undergraduate program provides a modern approach to physics and a variety of interactive class formats. Students who earn undergraduate degrees in physics have a wide variety of career opportunities. Many go on to graduate study in physics or related fields while others find employment in research and development in industry. Some also pursue an education degree and teach high school.

#### Physics Options

- Applied Physics
- Astrophysics
- Biological Physics
- Chemical Physics
- Computational Physics
- Geophysics
- Mathematical Physics
- Optical Physics

### 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](http://catalog.oregonstate.edu)

### Courses for this Major (Offered at Central Oregon Community College)

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

Priority courses to complete before transferring are distinguished by <sup>P</sup>

Physics Core Requirement	COCC Equivalent Course	OSU Courses	Notes
Mathematics <sup>P</sup>	MTH 251Z, 252Z, 253Z, 254, 255, 256	MTH 251Z, 252Z, 253Z, 254, 255, 256	Math placement determines where students begin in math. Please speak to your COCC advisor.
General Chemistry <sup>P</sup>	CH 221Z/227Z, 222Z/228Z, 223Z/229Z	CH 221Z/227Z, 222Z/228Z, 223Z/229Z	
Physics <sup>P</sup>	PH 211, 212, 213	PH 211, 212, 213	



**Oregon State**  
University

## Important Notes & Resources

### Important Notes for the College and Major:

- Grade requirements: C- or better in all lower division math and chemistry coursework.
- See a sample degree plan here: [Physics Sample Plan](#)
- For more information the Physics major see here: [More information](#)
- Options are not required for this major but interested students can select from: Applied Physics, Astrophysics, Biological Physics, Chemical Physics, Computational Physics, Geophysics, Mathematical Physics, and Optical Physics.
- Other similar majors to explore: Mathematics, Engineering, and Biochemistry & Biophysics
- Physics, Math, Chemistry and some Baccalaureate Core are priority courses to complete before transferring to OSU.
- For Physics 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 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](https://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](https://partnerships.oregonstate.edu/students)
- Visit OSU for a campus tour and meet with an advisor; schedule your visit at [visitosu.oregonstate.edu](https://visitosu.oregonstate.edu)
- Find more transfer student resources at [transfer.oregonstate.edu](https://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	Any course in this is acceptable for the major
	Arts and Humanities: Global	Any course in this is acceptable for the major
	Quantitative Literacy and Analysis	Completed as part of the major
	Communication, Media and Society	Any course in this is acceptable for the major
	Social Science	Any course in this is acceptable for the major
	Scientific Inquiry and Analysis (2 courses)	Can be completed as part of the major, depending on elective choices
SIGNATURE CORE	Difference, Power and Oppression Foundations	Any course in this is acceptable for the major
	Transitions	Any course in this is acceptable for the major
	Difference, Power and Oppression Advanced	Completed as part of the major (PH 301)
	Seeking Solutions	Any course in this is acceptable for the major
	Writing Elevation	WR 362 is required for the major
	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](https://visitosu.oregonstate.edu/visit-campus) to schedule your visit.

Central Oregon Community College advising	<a href="https://cocc.edu/departments/cap/advising/">https://cocc.edu/departments/cap/advising/</a>
College of Science Transfer Questions	<a href="mailto:COS-TransferQuestions@oregonstate.edu">COS-TransferQuestions@oregonstate.edu</a>
College of Science Science Success Center (for general questions)	<a href="mailto:sciencesuccess@oregonstate.edu">sciencesuccess@oregonstate.edu</a> 541-737-3854
OSU Physics Website	<a href="https://physics.oregonstate.edu/">https://physics.oregonstate.edu/</a>