

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

**Southwestern Oregon
Community College**

Nuclear Engineering

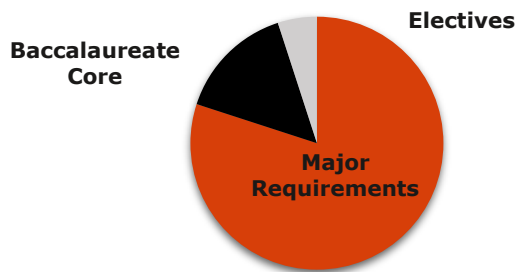
School of Nuclear Science and Engineering (NSE) today boasts a global influence and is one of the top programs in the United States. We are known for our progressive research, large-scale test facilities, and industry and governmental partnerships.

Nuclear engineers apply scientific principles to the research, design and operation of a wide variety of nuclear technology applications including power generation, medicine and radioactive waste management.

Nuclear Engineering graduates are highly employable and have found work in a variety of employment sectors, including:

- Nuclear Power Plants
- Naval Shipyards
- Government agencies (federal, state, local)
- Consulting Firms
- National Labs
- Manufacturing

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



- 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.
- Some courses can count towards your major and the Baccalaureate Core. Advisors can assist in selection.
- More info at ne.oregonstate.edu/about-nse

Courses Required for Nuclear Engineering Major

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

Nuclear Engineering Core Requirements	Southwestern Oregon CC Equivalent Course	OSU Course	Notes
Intro Nuc. Engr & Rad. Hlth. Phys I	N/A	NSE 100	
Intro NE & PHP II	N/A	NSE 102	
Intro NE & RHP III	N/A	NSE 103	
Mathematical Methods for NSE	N/A	NSE 233	
Nuclear & Radiation Physics I	N/A	NSE 234	
Nuclear & Radiation Physics II	N/A	NSE 235	
Nuc. Rad. Detection & Instrument.	N/A	NSE 236	
Differential Calculus	MTH 251	MTH 251	
Integral Calculus	MTH 252	MTH 252	
Vector Calculus	MTH 254	MTH 254	
Applied Differential Equations	MTH 256	MTH 256	
Intro to Matrix Algebra	MTH 260	MTH 264	
Intro to Series	N/A	MTH 265	
Chemistry for Engineering Majors	N/A	CH 201	
Chemistry for Engineering Majors	N/A	CH 202	
General Physics (Calculus)	PH 211	PH 211	
General Physics (Calculus)	PH 212	PH 212	
General Physics (Calculus)	PH 213	PH 213	
Electrical Fundamentals I	ENGR 201	ENGR 201	
Statics	ENGR 211	ENGR 211	
Dynamics	ENGR 212	ENGR 212	
Strength of Materials	ENGR 213	ENGR 213	
Solid Modeling	N/A	ENGR 248	

Courses Required for Nuclear Engineering Major, cont.

Nuclear Engineering Core Requirements	Southwestern Oregon CC Equivalent Course	OSU Course	Notes
Technical Writing	WR 227	WR 327 (LD)	
Public Speaking	SP 111	COMM 111	
Argument & Critical Discourse	SP 112	COMM 114	
Ethics	PHL 102	PHL 205	

Important Notes & Resources

Important Notes for the College of Engineering and Nuclear Engineering Major:

- Grade requirements: Grade of C or better in all major coursework. See <https://catalog.oregonstate.edu/college-departments/engineering/> for more information.
- See a sample degree plan by searching "Nuclear Engineering" at admissions.oregonstate.edu/find-your-major
- Other similar majors to explore: Mechanical Engineering
- Nuclear Engineering students: the best time to transfer is **Fall** term one year after starting at community college, particularly due to MECOP. Talk with an OSU advisor about your specific timeline.
- It is important to speak with an 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: 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
- Schedule your OSU campus tour and meet with an advisor at visitosu.oregonstate.edu/visit-campus

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 Southwestern Oregon courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college

SKILLS COURSES	Math Writing I Writing II Speech (Writing III) Fitness (Only HHS 231/241)	Completed as part of the major WR 121. Required to transfer. Completed as part of the major Completed as part of the major PE 291
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

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.

Southwestern Oregon Community College	socc.edu/services/32-curry/427-academic-transfer-advising
OSU Nuclear Engineering	Joan Stueve: joan.stueve@oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu