

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

**Umpqua
Community College**

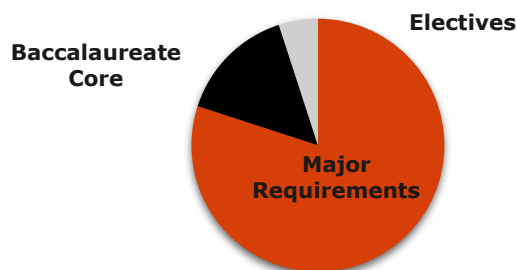
Radiation Health Physics

School of Nuclear Science and Engineering (NSE) today Radiation health physics is a specialized program in the School of Nuclear Science and Engineering for students with a professional interest in the field of radiation protection. Small quantities of radioactivity exist naturally in the soil, water, and air. Ionizing radiation is used in a variety of beneficial ways, including energy production, medical treatments, transportation safety, medical diagnoses, quality assurance, etc. HP's protect workers and the public from potential hazards associated with exposure.

Radiation Health Physics graduates are highly employable and tend to work where radionuclides and radiation are used or produced:

- Nuclear Power Plants
- Academic and research institutions
- Government agencies (federal, state, local)
- Consulting Firms
- National Labs
- Medical Facilities

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 Radiation Health Physics Major

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

Radiation Health Physics Core Requirements	Umpqua CC Equivalent Course	OSU Course	Notes
Intro Nuc. Engr & Rad. Hlth. Phys I	N/A	NSE 114	
Intro NE & PHP II	N/A	NSE 115	
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	
General Chemistry	N/A	CH 121	CH 121-123 available online at OSU
	N/A	CH 122	
	N/A	CH 123	Only select one full series (either all 100-level, or 200-level)
	CH 221	CH 231/261	
CH 222	CH 232/262	Lecture & lab for 200-level Chemistry have separate course numbers at OSU	
CH 223	CH 233/262		
Principles of Biology	BI 211	BI LD2	Only select one full series (either all of 211-213, or all of 221-223)
	BI 212	BI LD2	
	BI 213	BI LD2	OSU now only offers BI 221-223. If taking BI 211-213, you must take entire series at Umpqua.
	N/A	BI 221	
N/A	BI 222		
N/A	BI 223	Refer to admissions.oregonstate.edu/ld1-and-ld2-explained to learn more about BI LD2 equivalency	
Intro to Statistics	MTH 243	ST 201	Complete either ST 201/202 OR ST 314
	N/A	ST 202	
Intro to Statistics for Engineers	MTH 265	ST 314	

Courses Required for Radiation Health Physics Major, cont.

RHP Core Requirements	Umpqua CC Equivalent Course	OSU Course	Notes
General Physics	PH 201 PH 202 PH 203	PH 201 PH 202 PH 203	Only select one full series (either all 201-203, OR all of 211-213)
General Physics (with Calculus)	PH 211 PH 212 PH 213	PH 211 PH 212 PH 213	
Intro to Anatomy & Physiology	BI 231	BI 231	
Computers: App. & Implication	CS 161	CS 101 or 161	Complete 1(one) course
Technical Writing	WR 227	WR 327 (LD)	
Public Speaking	COMM 111	COMM 111	
Argument & Critical Discourse	SP 111 or 112	COMM 114	
Ethics	N/A	PHL 205	

Important Notes & Resources

Important Notes for the College of Engineering and Radiation Health Physics Major:

- Grade requirements: Grade of C or better in all major coursework. See [[College Link](#)] for more information.
- See a sample degree plan by searching "Radiation Health Physics" at admissions.oregonstate.edu/find-your-major
- Other similar majors to explore: Mechanical Engineering
- Radiation Health Physics students the best time to transfer is **Fall** term one year after starting at community college, particularly due [[insert reason why](#)]. Talk with an OSU advisor about your specific timeline.

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

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 courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college

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

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.

Umpqua Community College	umpqua.edu/areas-of-study/transfer-education
OSU Radiation Health Physics	Joan Stueve: joan.stueve@oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu