

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered Through:

CORVALLIS

Portland Community College

Manufacturing Engineering-Product Development Option

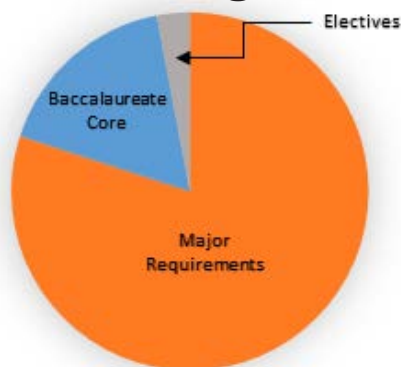
What is Manufacturing Engineering?

Manufacturing engineers design processes and facilities for making the many products that we take for granted. They choose the best way to make a product - and develop the necessary machining tools, automation procedures, and quality control workflows. Oregon State's MFGE-PD program is closely aligned with industry. Students can choose a dual major with mechanical engineering.

Careers in Manufacturing Engineering

- Designing precision machines for efficient, high quality smartphone manufacturing
- Developing new alloys using metal powders for 3D printing of nuclear reactor components
- Designing silicon chip manufacturing processes to reduce cost and improve product quality
- Implementing laser cutting and welding for producing rock-climbing equipment

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



- A minimum of 180 credits are required for graduation; 60 credits must be upper division (300 and 400-level courses).
- A maximum of 124 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.
- OSU Catalog has a list of courses required for your major: catalog.oregonstate.edu

Courses for this Major offered at Portland Community College

Requirement	PCC Course	OSU Course	Notes
Chemistry for Engineers I and lab	CH 221*	CH 231 and 261 lab	*Fulfills CH 205 lab requirement
Chemistry for Engineers II	CH 222	CH 232 and 262 lab	
Engineering Orientation I and II	ENGR 101, ENGR 114	MIME 101, ENGR 112	
Electrical Fundamentals I and II	ENGR 221, ENGR 222	ENGR 201, ENGR 202	
Statics	ENGR 211	ENGR 211	
Dynamics	ENGR 212	ENGR 212	
Strengths of Materials	ENGR 213	ENGR 213	
Solidworks	ENGR 105	ENGR 248	
Differential, Integral, and Vector Calculus	MTH 251, MTH 252, MTH 254	MTH 251, MTH 252, MTH 254	
Differential Equations	MTH 256	MTH 256	
Linear Algebra	None*	MTH 341	*MTH 341 at OSU
Calculus-Based Physics Series	PHY 211, PHY 212, PHY 213	PH 211, PH 212, PH 213	
Statistics for Engineers	Available online at OSU*	ST 314	*Online tuition is higher

Major classes that also count for Baccalaureate Core are listed on the back page.



Oregon State
University

Important Notes & Resources

Important Notes for the College and Major:

- All major requirements must be taken for a letter grade. Minimum of a C or better is required
- See a sample degree plan at <https://mime.oregonstate.edu/undergrad/advising/acadplan>
- ME majors can participate in two six-month paid internships with MECOP: <https://mecopinc.org/>
- A dual major in Mechanical Engineering is also possible
- Minor information: <https://mime.oregonstate.edu/academics/undergrad/minors>
- It is important to speak with your OSU ME advisor early on, an 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. However, if you've completed the Oregon AAOT, all requirements of the Baccalaureate Core requirements 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
- Students can transfer any term. Contact your OSU ME advisor at least two terms before you intend to start at OSU. Submit an official transcript from your community college at that time, but be sure to order a final copy that shows all your grades once they are recorded.

General Education Courses (called Baccalaureate Courses)

- 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 admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-portland-community-college
- Core courses from PCC that also satisfy major requirements at OSU listed below in **bold**

SKILL COURSES	Math Writing I Writing II Speech (Writing III) Fitness	MTH 251 required for major. WR 121 required to transfer. WR 227 required for major. COMM 111 or COMM 112 required for major. PE 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. PH 211 required for major. PH 212 required for major. Many options, see BaccCore link above. Many options, see BaccCore link above. EC 201 or EC 202 required for major. Many options, see BaccCore link above.
DPD COURSES	Difference, Power, and Discrimination	Many options, see BaccCore link above.
SYNTHESIS COURSES	Contemporary Global Issues Science, Technology, and 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.** 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.

Portland Community College Advisor	
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