TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

Mt. Hood Community College

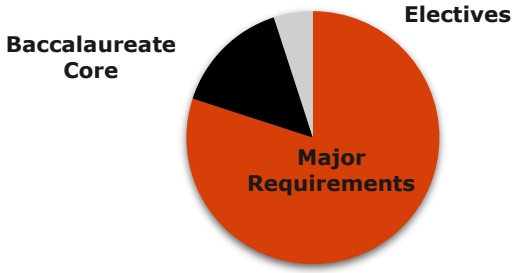
Mechanical Engineering

Mechanical engineers design, develop, and improve devices, products, processes, and systems. As a ME student, you'll take classes in mathematics, science, computer science, and design. As a mechanical engineer, the types of projects you can work on are endless. At Oregon State, ME areas of focus include design, materials, mechanics, dynamics and controls, and thermal-fluid sciences.

Examples of what ME engineers can do:

- Build satellites, rockets, & autonomous vehicles
- Design miniature heat pumps for use in protective clothing
- Develop new materials for medical products & sports equipment
- Design wind turbines, photovoltaic panels, & other renewable energy systems
- Design cook stoves for low resource environments

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 mime.oregonstate.edu/academics/undergrad/me

Courses Required for Mechanical Engineering Major

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

Mechanical Engineering Core Requirements	Mt. Hood Equivalent Course	OSU Course	Notes
Intro to Engineering Computing	GE 102	ENGR 112	
Electrical Fundamentals I	ENGR 201	ENGR 201	
Electrical Fundamentals II	--	ENGR 202	
Statics	ENGR 211	ENGR 211	
Dynamics	ENGR 212	ENGR 212	
Strength of Materials	ENGR 213	ENGR 213	
Engr. Graphics & 3-D Modeling	ENGR 248	ENGR 248	
Micro or Macro Economics	EC 201 or EC 202	ECON 201/202	Complete 1 (one) course
Intro to MIME	GE 101	MIME 101	
Intro to Manufacturing Processes	--	ME 250	
Differential Calculus	MTH 251	MTH 251	
Integral Calculus	MTH 252	MTH 252	
Vector Calculus I	MTH 254	MTH 254	
Applied Differential Equations	MTH 256	MTH 256	
Linear Algebra I	MTH 253 + 261	MTH 341	Transfers in as MTH 306, approved for ME
Intro to Statistics for Engineers	--	ST 314 (LD)	(LD) = Lower Division Transfer
General Physics (Calculus)	PH 211	PH 211	
General Physics (Calculus)	PH 212	PH 212	
General Physics (Calculus)	PH 213	PH 213	
Chemistry for Engineers	CH 221	CH 201	Transfers in as CH 231 + CH 261
Chemistry for Engineers	CH 222	CH 202	Transfers in as CH 232 + CH 262
Chemistry for Engineers lab	CH 222	CH 205	Transfers in as CH 232 + Ch 262

Revised as of October 2020

Oregon State University

Courses Required for Mechanical Engineering Major, continued

Mechanical Engineering Core Requirements	Mt. Hood Equivalent Course	OSU Course	Notes
Public Speaking Argument & Critical Discourse	COMM 111 COMM 114	COMM 111 COMM 114	Complete 1(one) course
Technical Writing	WR 227	WR 327 (LD)	(LD) = Lower Division Transfer
English Comp	WR 121	WR 121	

Important Notes & Resources

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

- Grade requirements: Grade of C or better in all major coursework.
- See a sample degree plan by searching "Mechanical Engineering" at admissions.oregonstate.edu/find-your-major
- A dual major in Manufacturing Engineering (Product Development option) is also possible
- ME students: You can transfer ANY term. Talk with an OSU IE advisor TWO TERMS before you intent to transfer to discuss your specific timeline.
- ME majors can participate in two six-month paid internships with MECOP: mecopinc.org

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 Mt. Hood courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-mount-hood-community-college

SKILLS COURSES	Math Writing I Writing II Speech (Writing III) Fitness	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	Choose one course from BaccCore link above Completed as part of the major Completed as part of the major Choose one course from BaccCore link above Choose one course from BaccCore link above Choose one course from BaccCore link above Choose one course from BaccCore link above
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.

Mt. Hood Community College	mhcc.edu/Degrees_TransferGuides/
OSU Mechanical Engineering	MIME Advisor, MIME.advising@oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu

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