

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered Through:

CORVALLIS

Blue Mountain Community College

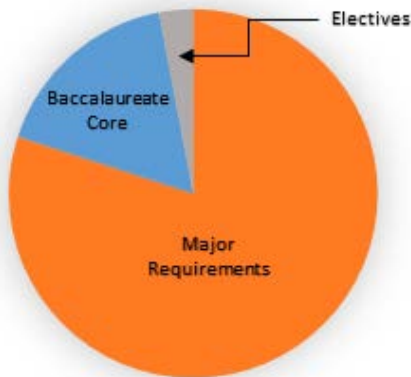
Manufacturing Engineering - Systems Opetion (MFGE-SYS)

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-SYS program is closely aligned with industry. Students can also choose a dual major with industrial engineering.

Examples of what MFGE engineers can do:

- Developing new sensor technologies for energy-efficient freeze drying of ice cream
- Designing silicon chip manufacturing processes to reduce cost and improve product quality
- Implementing laser cutting and welding for producing rock-climbing equipment
- Identifying the most cost-effective facility layout for composite aircraft manufacturing

Bachelor of Science 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 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 and option: catalog.oregonstate.edu

Courses for this Major offered at Blue Mountain Community College

Requirement	BMCC Course	OSU Course	Notes
Chemistry for Engineers I & Lab	CH 221 *	CH 231 & 261	*fills CH 205 lab req
Chemistry for Engineers II	CH 222	CH 232 & 261	
Engineering Orientation I	NONE	MIME 101	
Engineering Orientation II	Available online at OSU	ENGR 112	*Online tuition is higher
Electrical Fundamentals I	Available online at OSU	ENGR 201	*Online tuition is higher
Statics + Dynamics	Available online at OSU	ENGR 211 + 212	*Online tuition is higher
Strength of Materials	Available online at OSU	ENGR 213	*Online tuition is higher
Solid Works	Available online at OSU	ENGR 248	*Online tuition is higher
Calculus Series I + II + III	MTH 251 + 252 + 254	MTH 251 + 252 + 254	
Differential Equations	MTH 256	MTH 256	
Linear Algebra	NONE*	MTH 341	*MTH 341 @ OSU
Calc-Based Physics I + II + III	PH 211 + 212 + 213	PH 211 + 212 + 213	
Statistics for Engineers	Available online at OSU	ST 314	*Online tuition is higher



Oregon State
University

Important Notes & Resources

Important Notes for the College and Major:

- IE 112, IE 212, MFGE 285 and MTH 341 are major requirements that will be taken at OSU.
- All major requirements must be taken for a letter grade. Min grade of C or better is required.
- See a sample degree plan at <https://mime.oregonstate.edu/undergrad/advising/acadplan>
- Majors can participate in two six-month paid internships with MECOP: <https://www.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 MFGE 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. However, 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: 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-blue-mountain-community-college

SKILL COURSES	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major. WR 121. Required to transfer. WR 227 COMM 111 or COMM 112 HE 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. Many options, see BaccCore link above. Many options, see BaccCore link above. Many options, see BaccCore link above. 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.

BMCC Advisor	
OSU MfgE-SYS Advisor	Cassie Pitkin: cassie.pitkin@oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu