

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

**Linn Benton
Community College**

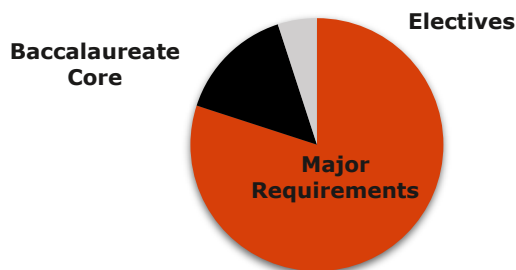
Mechanical Engineering

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 | Linn Benton Equivalent Course | OSU Course | Notes |
|--|-------------------------------|--------------|--|
| Intro to Engineering Computing | ENGR 112 | ENGR 112 | |
| Electrical Fundamentals I | ENGR 201 | ENGR 201 | |
| Electrical Fundamentals II | ENGR 202 | 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 | ENGR 111 | 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 | MTH 341 | Transfers in as MTH 306, approved for ME |
| Intro to Statistics for Engineers | MTH 265 | 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 201 | CH 201 | |
| Chemistry for Engineers | CH 202 | CH 202 | |
| Chemistry for Engineers lab | CH 202* | CH 205 | *has lab component |

Courses Required for Mechanical Engineering Major, continued

| Mechanical Engineering Core Requirements | Linn Benton Equivalent Course | OSU Course | Notes |
|--|-------------------------------|-------------|--------------------------------|
| Public Speaking | COMM 111 | COMM 111 | Complete 1(one) course |
| Argument & Critical Discourse | COMM 114 | COMM 114 | |
| 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 Linn Benton courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-linn-benton-community-college

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| 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 PE 231 |
| 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.

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| Linn Benton Community College | linnbenton.edu/current-students/student-support/advising-center/index.php |
| OSU Mechanical Engineering | MIME Advisor, MIME.advising@oregonstate.edu |
| OSU College of Engineering Main Office | askengineering@oregonstate.edu |