

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

**Tillamook Bay
Community College**

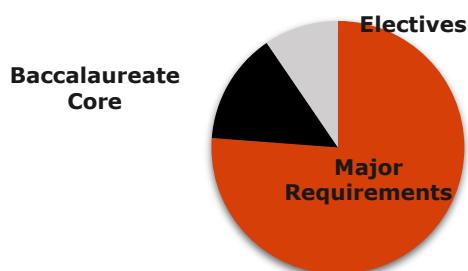
Industrial Engineering

Industrial engineers design, implement, and manage complex organizational systems and processes. IEs develop knowledge and skills in a wide variety of disciplines. These transferrable skills are crucial in today's complex world. The Industrial Engineering degree is one of the most flexible degrees offered by the College of Engineering.

Examples of what IE engineers can do:

- Manage how efficiently materials and people move around facilities
- Manage how to store, transport, & carry all types of materials, or how to set the best routes to deliver packages via parcel services
- Design manufacturing, production, & service systems such as vehicle assembly plants or hospitals

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/industrial-engineering-undergraduate-program

Courses Required for Industrial Engineering Major

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

| Industrial Engineering Core Requirements | Tillamook Bay Equivalent Course | OSU Course | Notes |
|--|---------------------------------|-------------|--------------------------------|
| Spreadsheet Skills for Ind. Engr. | | IE 112 | Must be taken at OSU |
| Comp, Methods for Industrial Engr. | | IE 212 | Must be taken at OSU |
| Intro to Ind. & Manuf. Engr. | | IE 285 | Must be taken at OSU |
| Intro to Engineering Computing | -- | ENGR 112 | |
| Electrical Foundations I | -- | ENGR 201 | |
| Statics | -- | ENGR 211 | |
| Dynamics | -- | ENGR 212 | |
| Strength of Materials | -- | ENGR 213 | |
| Engr. Graphics & 3-D Modeling | -- | ENGR 248 | |
| Intro to MIME | -- | 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 | |
| Linear Algebra I | -- | MTH 341 | |
| Intro to Statistics for Engineers | -- | ST 314 (LD) | |
| General Physics (Calculus) | -- | PH 211 | |
| General Physics (Calculus) | -- | PH 212 | |
| General Physics (Calculus) | -- | 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 |
| Public Speaking | COMM 111 | COMM 111 | Complete 1(one) course |
| Argument & Critical Discourse | COMM 112 | COMM 114 | |
| Technical Writing | WR 227 | WR 327 (LD) | (LD) = Lower Division Transfer |

Important Notes & Resources

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

- Grade requirements: Grade of C or better in all major coursework.
- See a sample degree plan by searching "Industrial Engineering" at admissions.oregonstate.edu/find-your-major
- Other similar majors to explore: Manufacturing Engineering
- A dual major in Manufacturing Engineering (Systems option) is also possible
- IE students: You can transfer **ANY** term. Talk with an OSU IE advisor **TWO TERMS** before you intend to transfer to discuss your specific timeline.
- IE 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 Tillamook Bay courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-tillamook-bay-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 HE 295 or 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 | 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.

| | |
|---|---|
| Tillamook Bay Community College | tillamookbaycc.edu/programs-services/degree-partnership-program |
| OSU Industrial Engineering | MIME Advisor, MIME.advising@oregonstate.edu |
| OSU College of Engineering Main Office | askengineering@oregonstate.edu |