

Major Offered At:

**CORVALLIS**

## Columbia Gorge Community College

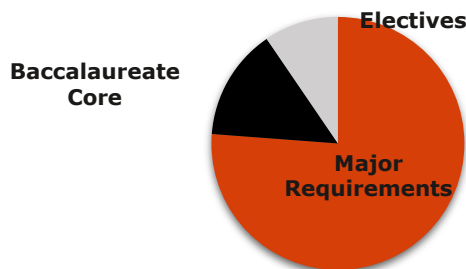
### Industrial Engineering

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](http://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	Columbia Gorge 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	
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	
Argument & Critical Discourse		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](https://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](https://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](https://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](https://partnerships.oregonstate.edu/students)
- Schedule your OSU campus tour and meet with an advisor at [visitosu.oregonstate.edu/visit-campus](https://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 Columbia Gorge courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-columbia-gorge-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-columbia-gorge-community-college)

<b>SKILLS COURSES</b>	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
<b>PERSPECTIVE COURSES</b>	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
<b>DPD COURSE</b>	Difference, Power, & Discrimination	Choose one course from BaccCore link above
<b>SYNTHESIS COURSES</b>	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](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

<b>Columbia Gorge Community College</b>	<a href="https://cgcc.edu/advising">cgcc.edu/advising</a>
<b>OSU Industrial Engineering</b>	MIME Advisor, <a href="mailto:MIME.advising@oregonstate.edu">MIME.advising@oregonstate.edu</a>
<b>OSU College of Engineering Main Office</b>	<a href="mailto:askengineering@oregonstate.edu">askengineering@oregonstate.edu</a>