Major Offered At:
CORVALLIS

Manufacturing Engineering – Systems Option (MfgE-SYS)

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

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.
• Other options available: Product Development (not required)
• More info at mime.oregonstate.edu/manufacturing-engineering-graduate-program

Courses Required for Manufacturing Engineering Major, Systems option
This list is comprehensive. Speak with OSU advisor for more information

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<th>Manufacturing Engr.- Systems Core Requirements</th>
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<td>Statics</td>
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<td>Dynamics</td>
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<td>Engr. Graphics &amp; 3-D Modeling</td>
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<td>Intro to MIME</td>
<td>MIME 101</td>
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<td>Intro to Manufacturing Processes</td>
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<td>Differential Calculus</td>
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<tr>
<td>Linear Algebra I</td>
<td>MTH 341</td>
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<tr>
<td>Intro to Statistics for Engineers</td>
<td>ST 314 (LD)</td>
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<tr>
<td>General Physics (Calculus)</td>
<td>PH 211</td>
<td>PH 211</td>
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<tr>
<td>Chemistry for Engineers</td>
<td>CH 221</td>
<td>CH 201</td>
<td>Transfers in as CH 231 + CH 261</td>
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<tr>
<td>Chemistry for Engineers</td>
<td>CH 222</td>
<td>CH 202</td>
<td>Transfers in as CH 232 + CH 262</td>
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<tr>
<td>Chemistry for Engineers lab</td>
<td>CH 222</td>
<td>CH 205</td>
<td>Transfers in as CH 232 + CH 262</td>
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## Important Notes & Resources

**Important Notes for the College of Engineering and Manufacturing Engineering Major, Systems Option:**
- Grade requirements: Grade of C or better in all major coursework.
- See a sample degree plan by searching “Manufacturing Engineering” at [admissions.oregonstate.edu/find-your-major](http://admissions.oregonstate.edu/find-your-major)
- A dual major in Mechanical Engineering is also possible
- MfgE-SYS students: You can transfer ANY term. Talk with an OSU MfgE-SYS advisor TWO TERMS before you intent to transfer to discuss your specific timeline.
- MfgE-SYS can participate in two six-month paid internships with MECOP: [mecopinc.org](http://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](http://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](http://partnerships.oregonstate.edu/students)
- Schedule your OSU campus tour and meet with an advisor at [visitosu.oregonstate.edu/visit-campus](http://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 Treasure Valley courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-treasure-valley-community-college](http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-treasure-valley-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
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### 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](http://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

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<thead>
<tr>
<th>Treasure Valley Community College</th>
<th>tvcc.cc/advising/index.cfm</th>
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</thead>
<tbody>
<tr>
<td>OSU MfgE- Systems Engineering</td>
<td>MIME Advisor, <a href="mailto:MIME.advising@oregonstate.edu">MIME.advising@oregonstate.edu</a></td>
</tr>
<tr>
<td>OSU College of Engineering Main Office</td>
<td><a href="mailto:askengineering@oregonstate.edu">askengineering@oregonstate.edu</a></td>
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*Revised as of October 2020*