Pre-Manufacturing Engineering—Systems Option

**Fall**
- MIME 101 Intro to MIME (3cr, F only)
- MTH 251 Differential Calculus (4cr, FWSpSu)
- WR 121 English Composition (3cr, F)
- BACC CORE Course WC, CD, LA, SPI, DPD, BIO, CGI, STS

**Winter**
- ENGR 248 ENGR Graphics & 3-D Modeling (3cr, FWSpSu, Any order)
- MTH 252 Integral Calculus (4cr, FWSpSu, Either order)
- HHS 231 + HHS Lab or PAC class (2+1cr, FWSpSu, Any order)
- BACC CORE Course WC, CD, LA, SPI, DPD, BIO, CGI, STS

**Spring**
- ENGR 112 Intro to Engineering Computing (MATLAB) (3cr, FWSpSu)
- COMM 111/114 Speech (3cr, FWSpSu)
- BACC CORE Course WC, CD, LA, SPI, DPD, BIO, CGI, STS

**Fall**
- PH 211 Physics w/Calculus (4cr, FWSpSu)
- MTH 254 Vector Calculus (4cr, FWSpSu)
- MTH 256 Differential Equations (4cr, FWSpSu)
- PH 212 Physics w/Calculus (4cr, FW)
- BACC CORE Course WC, CD, LA, SPI, DPD, BIO, CGI, STS

**Spring**
- MTH 306 Matrix & Power Series Methods (4cr, FWSpSu)
- WR 327 Technical Writing (3cr, FWSpSu)
- ME 250 Intro to Manufacturing Processes (1cr, FWSpSu)
- BACC CORE Course WC, CD, LA, SPI, DPD, BIO, CGI, STS

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* ECON 201 or ECON 202 also satisfies OSU's baccalaureate core requirement for a Social Processes and Institutions Perspectives Elective.
** Soph = Sophomore standing in engineering required to enroll in this class.
† Shaded grades in shaded courses are used to determine pre-Core GPA and are required for entry into the professional program.
Su Courses listed in red as being available during a term, may or may not actually be offered.
†† Bacc Core courses are taken to complete OSU's baccalaureate core curriculum ([https://catalog.oregonstate.edu/earning-degrees/bcc/](https://catalog.oregonstate.edu/earning-degrees/bcc/)) and need only be taken sometime before graduation. For MIME majors, the seven Bacc Core courses consist of one course each in the areas of western culture (WC), cultural diversity (CD), literature and the arts (LA), biological science (BIO), difference, power and discrimination (DPD), contemporary global issues (CGI), and science, technology and society (STS).
Manufacturing Engineering—Systems: Non MECOP

**Three electives required. Students completing the dual major with IE must take IE 412, 415, 425, 426, plus one more 400-level IE course (IE 471 suggested for Spring elective). A complete list of Restricted Electives is available through the “Manufacturing Systems Option Academic Plan” link at [http://mime.oregonstate.edu/undergrad/advising/acadplan](http://mime.oregonstate.edu/undergrad/advising/acadplan).

**Two additional listed Restricted Electives are only required of students completing the dual major with IE.

Access to shaded courses requires entrance to the MFGESys professional program.

Courses listed in red as being available during a term, may or may not actually be offered.

Bacc Core courses are taken to complete OSU’s baccalaureate core curriculum ([https://catalog.oregonstate.edu/earning-degrees/bcc/](https://catalog.oregonstate.edu/earning-degrees/bcc/)) and need only be taken sometime before graduation. For MIME majors, the seven Bacc Core courses consist of one course each in the areas of western culture (WC), cultural diversity (CD), literature and the arts (LA), biological science (BIO), difference, power and discrimination (DPD), contemporary global issues (CGI), and science, technology and society (STS).
Access to shaded courses requires entrance to the MFGESys professional program.

**Fall**
- ENGR 212 & MTH 256
- ME 311 Intro to Thermal-Fluid Sciences (4cr, FWSu)
- MFGE 336 Production Engineering (4cr, W)

**Winter**
- ENGR 213, ENGR 248, ENGR 321, & ME 250
- ME 382 or IE 366
- MFGE 337 Materials and Manufacturing Processes (4cr, W)

**Spring**
- ME 413 CAD Design & Manufacturing (4cr, FSp)
- MFGE 436 Lean Manufacturing Systems Engineering (4cr, F)

**Summer & Intership**
- Restricted Elective (or IE 412)** (3cr)
- Restricted Elective (or IE 425)*** (3cr)

**Fall**
- IE 366 Work Design (4cr, WSu)
- BACC CORE Course WC, CD, LA, SPI, DPD, BIO, CGI, STS
- ME 382 Intro to Design (4cr, F)

**Winter**
- BACC CORE Course WC, CD, LA, SPI, DPD, BIO, CGI, STS
- Restricted Elective (or IE 415)*** (3cr)
- Restricted Elective (or IE 4XX)** (3cr)

**Fall**
- IE 497 MIME Capstone Design (4cr, FW)

**Winter**
- IE 498 MIME Capstone Design (4cr, WSp)

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**Fall**
- MECOP Seminar (1cr, F)

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**Notes:**
- **Three electives required. Students completing the dual major with IE must take IE 412, 415, 425, 426, plus one more 400-level IE course.** A complete list of Restricted Electives is available through the "Manufacturing Systems Option Academic Plan" link at [http://mime.oregonstate.edu/undergrad/advising/acadplan](http://mime.oregonstate.edu/undergrad/advising/acadplan).
- **Two additional listed Restricted Electives are only required of students completing the dual major with IE.**
- **Restricted Elective** (or IE 412)** (3cr)
- **Restricted Elective** (or IE 415)*** (3cr)
- **Restricted Elective** (or IE 4XX)** (3cr)
- **Restricted Elective** (or IE 412)** (3cr)
- **Restricted Elective** (or IE 425)*** (3cr)

Su Courses listed in red as being available during a term, may or may not actually be offered.

Access to shaded courses requires entrance to the MFGESys professional program.

Bacc Core courses are taken to complete OSU’s baccalaureate core curriculum ([https://catalog.oregonstate.edu/earning-degrees/bcc/](https://catalog.oregonstate.edu/earning-degrees/bcc/)) and need only be taken sometime before graduation. For MIME majors, the seven Bacc Core courses consist of one course each in the areas of western culture (WC), cultural diversity (CD), literature and the arts (LA), biological science (BIO), difference, power and discrimination (DPD), contemporary global issues (CGI), and science, technology and society (STS).