Pre-Manufacturing Engineering—Product Development Option

**Fall**
- MIME 101: Introduction to Engineering in MIME (3cr, F)
- MTH 251: Differential Calculus (4cr, FWSpSu)
- CH 201: Chemistry for Engineers (3cr, F, W)
- WR 121: English Composition (3cr, FWSpSu)
- BACC CORE Course
  - WC, CD, LA, DPD, BIO, CGI, STS (Any order)

**Winter**
- MTH 252: Integral Calculus (4cr, FWSpSu)
- CH 202: Chemistry for Engineers (3cr, W, Sp)
- HHS 231 + HHS Lab or PAC class (2+1cr, FWSpSu)
- BACC CORE Course
  - WC, CD, LA, DPD, BIO, CGI, STS (Any order)

**Spring**
- ENGR 112: Introduction to Engineering Computing (3cr, FWSpSu)
- MTH 254: Vector Calculus (4cr, FWSpSu)
- PH 211: Physics w/ Calculus (4cr, FWSpSu)
- COMM 111/114: Speech (3cr, FWSpSu)
- BACC CORE Course
  - WC, CD, LA, DPD, BIO, CGI, STS

**Fall**
- ENGR 211: Statics (3cr, FWSpSu)
- MTH 256: Differential Equations (4cr, FWSpSu)
- PH 212: Physics w/ Calculus (4cr, FWSpSu)
- ECON 201 (or 202): Introduction to Micro- (or Macro-) economics* (4cr, FWSpSu)
- ENGR 201: Electrical Fundamentals (3cr, FWSpSu)

**Winter**
- ENGR 212: Dynamics (3cr, FWSpSu)
- MTH 306: Matrix & Power Series Methods (4cr, FWSpSu)
- PH 213: Physics w/ Calculus (4cr, FWSpSu)
- ENGR 202: Electrical Fundamentals II (3cr, W, SpSu)
- WR 327: Technical Writing (3cr, FWSpSu)

**Spring**
- ENGR 248: Intro to Manufacturing Processes (1cr, FWSSu)
- ME 250: Intro to Manufacturing Processes (FWSSu)

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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.

Grades in shaded courses are used to determine pre-Core GPA and are required for entry into the professional program.

Lightly Shaded courses are prerequisites for junior year courses, recommended for completion prior to entry into the 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/) 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—Product Development Option Non-MECOP**

**Fall**
- ME 311 Intermediate Dynamics (4cr, FW)
- ME 316 Intro to Thermal-Fluid Sciences (4cr, FW)
- ME 373 Mechanical Engineering Methods (3cr, FW)
- ME 317 Mechanical Component Design (4cr, WS)

**Winter**
- ME 382 Intro to Design (4cr, FWSu)
- ME 316 Intro to Mechanical Engineering (4cr, WS)
- ME 312 Thermodynamics (4cr, WS)
- ME 331 Heat Transfer (4cr, FSpSu)

**Spring**
- ME 383 Mechanical Component Design (4cr, WS)
- ME 312 Thermodynamics (4cr, WS)
- ME 332 Heat Transfer (4cr, FSpSu)
- ME 333 Lean Mfg. Systems (4cr, F)

**Fall**
- ME 382 Intro to Design (4cr, FWSu)
- ME 312 Thermodynamics (4cr, WS)
- ME 331 Heat Transfer (4cr, FSpSu)
- ME 436 Comp. Control of Mfg. Processes (4cr, W)

**Winter**
- ME 383 Mechanical Component Design (4cr, WS)
- ME 332 Heat Transfer (4cr, FSpSu)
- ME 436 Comp. Control of Mfg. Processes (4cr, W)
- ME 451* (4cr, FWSp)

**Spring**
- ME 383 Mechanical Component Design (4cr, WS)
- ME 332 Heat Transfer (4cr, FSpSu)
- ME 436 Comp. Control of Mfg. Processes (4cr, W)
- ME 451* (4cr, FWSp)

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**Notes:**
- **One technical elective required. Students wishing to earn the dual major with ME must take ME 430 and ME 451. A complete list of Restricted Electives is available through the “Manufacturing Product Development Option Academic Plan” link at [http://mime.oregonstate.edu/undergrad/advising/acadplan](http://mime.oregonstate.edu/undergrad/advising/acadplan).**
- 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).
**One technical elective required. Students wishing to earn the dual major with ME must take ME 430 and ME 451. A complete list of Restricted Electives is available through the “Manufacturing Product Development Option Academic Plan” link at http://mime.oregonstate.edu/undergrad/advising/acadplan.**

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**

- WC, CD, LA, DPD, BIO, CGI, STS

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

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