Yr 1, 2 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)

Recommended Pre-Req MTH 251

Winter
- MTH 252: Integral Calculus (4cr, FWSpSu)
- CH 202: Chemistry for Engineers (3cr, W, Sp)
- COMM 111/114: Speech (3cr, FWSpSu)

Spring
- ENGR 112: Introduction to Engineering Computing (3cr, FWSpSu)
- MTH 254: Vector Calculus (4cr, FWSpSu)
- PH 211: Physics w/Calculus (4cr, FWSpSu)
- Optional Physics recitations: PH 221, 222, 223 (1 cr. each term)

Shaded courses are either pre-requisite courses, or courses strongly recommended to take prior to Upper Division coursework

Fall
- ENGR 211: Statics (3cr, FWSpSu)
- MTH 256: Differential Equations (4cr, FWSpSu)
- PH 213: Physics w/Calculus (4cr, FWSpSu)

Winter
- ENGR 212: Dynamics (3cr, FWSpSu)
- CH 202: Chemistry for Engineers (3cr, W, Sp)
- ENGR 213: Strength of Materials (3cr, FWSpSu)

Spring
- MTH 341: Linear Algebra (3cr, FWSpSu)
- IE 255: Intro Quantitative Analysis (3cr, Sp)
- ENGR 201: Electrical Fundamentals (3cr, FWSpSu)
- ME 250: Intro to Manufacturing Processes (1cr, FWSp)

* ECON 201 or ECON 202 (required only for dual major with ME) 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.
† 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).

† Courses listed in red as being available during a term, may or may not actually be offered.
Yr 3, 4 Manufacturing Engineering—Product Development Option Non-MECOP

**Fall**
- **ME 382** Intro to Design (4cr, FWSu)
- **ME 373** Mechanical Engineering Methods (4cr, FW)
- **ME 317** Intermediate Dynamics (4cr, FW)
- **ME 311** Intro to Thermal-Fluid Sciences (4cr, FWSu)
- **ENGR 390** Engineering Economy (4cr, FWSu)
- **MFGE 336** Production Engineering (4cr)

**Winter**
- **ME 316**
- **ME 376**
- **ME 312** Thermodynamics (4cr, WS)
- **ME 316 & MTH 256**
- **ENGR 213**
- **MATS 321** Mechanical Properties of Materials (4cr, FW)
- **IE 355, 365, 366, 367, 368, WR 327**

**Spring**
- **ME 383** Mechanical Component Design (4cr, WS)
- **MATS 322** Mechanical Properties of Materials (4cr, FW)
- **ME 332** Heat Transfer (4cr, FSpSu)
- **ME 331** Introductory Fluid Mechanics (4cr, WS)
- **MFGE 436** Lean Mfg. Systems (4cr, F)
- **MFGE 437** Comp. Control of Mfg. Processes (4cr, W)

**Fall**
- **Restricted Technical Elective or ME 430** (3 or 4cr)
- **MFGE 413** Comp-Aided Design & Mfg. (4cr, F)

**Winter**
- **BACC CORE Course**
- **ME 382**

**Spring**
- **BACC CORE Course**
- **ME 330** Capstone Design (4cr, WS)
- **ME 330** Capstone Design (4cr, W)
- **Remaining Pre-Core Course or BACC CORE Course**
- **MFGE 337** Materials & Mfg. Processes (4cr, W)
- **BACC CORE Course**
- **MFGE 437**

**Option: ME 451** (4cr, FWSp)

**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).

- **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).
**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).

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