Pre-Industrial Engineering

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

**Winter**
- ENGR 248
  - ENGR Graphics & 3-D Modeling
  - (3cr, FWSpSu)
- MTH 252
  - Integral Calculus
  - (4cr, FWSpSu)
- CH 202
  - Chemistry for Engineers
  - (3cr, W)
- HHS 231 + HHS Lab, or PAC class
  - (2+1cr, FWSpSu)
- BACC CORE Course
  - WC, CD, LA, SPI, DPD, BIO, CGI, STS

**Spring**
- ENGR 112
  - Intro to Engineering Computing (MATLAB)
  - (3cr, FWSpSu)
- MTH 254
  - Vector Calculus
  - (4cr, FWSpSu)
- PH 211
  - Physics w/Calculus
  - (4cr, FSpSu)
- COMM 111/114
  - Speech
  - (3cr, FWSpSu)
- ENGR 211
  - Statics
  - (3cr, FWSpSu)

**Fall**
- IE 285
  - Intro to IE and MfgE
  - (3cr, F)
- MTH 256
  - Differential Equations
  - (4cr, FWSpSu)
- PH 212
  - Physics w/Calculus
  - (4cr, FW)
- ENGR 213
  - Strength of Materials
  - (3cr, FWSpSu)
- ME 250
  - Intro to Manufacturing Processes
  - (1cr, FWSp)

**Winter**
- IE 212
  - Computational Methods for Industrial Engineering
  - (4cr, WSu)
- MTH 306
  - Matrix & Power Series Methods
  - (4cr, FWSpSu)
- PH 213
  - Physics w/Calculus
  - (4cr, WSp)
- ENGR 212
  - Dynamics
  - (3cr, FWSpSu)
- BACC CORE Course
  - WC, CD, LA, SPI, DPD, BIO, CGI, STS

**Spring**
- ENGR 390
  - Engineering Economy
  - (3cr, FWSp)
- IE 255
  - Intro Analysis Ind/Mfg Systems
  - (3cr, FSp)
- WR 327
  - Technical Writing
  - (3cr, FWSpSu)
- ME 250
  - Intro to Manufacturing Processes
  - (1cr, FWSp)
- BACC CORE Course
  - WC, CD, LA, SPI, DPD, BIO, CGI, STS

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* Students interested in the dual major with Manufacturing Systems should follow the Manufacturing Systems flowchart and Academic Plan. Postpone a BacCore to pro-school.

** 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.

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

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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 IE majors, the eight Bacc Core courses consist of one course each in the areas of western culture (WC), cultural diversity (CD), literature and the arts (LA), social processes and institutions (SPI), biological science (BIO), difference, power and discrimination (DPD), contemporary global issues (CGI), and science, technology and society (STS).
Students interested in the dual major with Manufacturing Systems should follow the Manufacturing Systems flowchart and Academic Plan. Postpone a BacCore to pro-school.

Required technical electives. A complete list of Restricted Electives is available through the MIME Advising Materials website: [http://mime.oregonstate.edu/undergrad/advising/acadplan](http://mime.oregonstate.edu/undergrad/advising/acadplan). The Restricted Electives are grouped into eight focus areas and the Business Engineering Option.

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

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