Pre-Industrial Engineering

Fall
- MIME 101
  Intro to MIME
  (3cr)
- MTH 251
  Differential Calculus
  (4cr, FWSpSu)

Winter
- ENGR 112
  Intro to Engineering Computing (MATLAB)
  (3cr, FWSpSu)
- MTH 252
  Integral Calculus
  (4cr, FWSpSu)

Spring
- CH 201
  Chemistry for Engineers
  (3cr, F)
- PH 211
  Physics w/Calculus
  (4cr, WSu)

Fall
- ENGR 248
  ENGR Graphics & 3-D Modeling
  (3cr, FWSpSu)
- MTH 254
  Vector Calculus
  (4cr, FWSpSu)

Winter
- MTH 256
  Differential Equations
  (4cr, FWSpSu)
- MTH 306
  Matrix & Power Series Methods
  (4cr, FWSpSu)

Spring
- WR 121
  Technical Writing
  (3cr, FWSpSu)
- WR 327
  Technical Writing
  (3cr, FWSpSu)

BACC CORE Elective
  WC, CD, LA, SPI, DPD, BIO, CGI, STS

** 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.

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.

† Bacc Core Elective courses are taken to complete OSU’s baccalaureate core curriculum (http://catalog.oregonstate.edu/bcc.aspx) and need only be taken sometime before graduation. For IE majors, the eight Bacc Core Elective 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).
Access to shaded courses requires entrance to the IE professional program.

A complete list of Restricted Electives is available through the MIME Advising Materials website: http://mime.oregonstate.edu/undergrad/advising/schedule-appt. The Restricted Electives are grouped into the seven focus areas and the Business Engineering Option.

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Industrial Engineering – MECOP

Fall

- Restricted Elective
  (Business Engr. Option = BA 211) (4cr)

- IE 367
  Production Planning and Control (4cr, F)

- ST 314

Winter

- IE 366
  Work Design (4cr, W)

- IE 368
  Facilities Design and Operations Management (4cr, W)

- CH 202

Spring

- IE 355
  Statistical Quality Control (4cr, F)

- IE 356
  Experimental Design (4cr, W)

- MTH 306

Summer

- IE 425
  Industrial Systems Optimization (4cr, F)

- MTH 252

- IE 201
  Electrical Fundamentals (3cr, FWSpSu)

- ST 314

- IE 407
  MECOP Seminar (1cr, F)

- MATS 321
  Materials Science (4cr, FWSu)

Fall

- IE 412
  Information Systems Engineering (4cr, F)

- ST 314 & IE 212

Winter

- IE 415
  Simulation & Decision Support Systems (4cr, W)

- ENGR 201
  Electrical Fundamentals (3cr, FWSpSu)

- ST 314

Spring

- Restricted Elective
  (Business Engr. Option = IE 471) (3cr)

- BACC CORE Elective†
  WC, CD, LA, SPI, DPD, BIO, CGI, STS

Summer

- Restricted Elective
  (Business Engr. Option = IE 475) (3cr)

- BACC CORE Elective†
  WC, CD, LA, SPI, DPD, BIO, CGI, STS

- IE 497
  MIME Capstone Design (4cr, F)

- IE 498
  MIME Capstone Design (4cr, W)

- IE 412
  Information Systems Engineering (4cr, F)

- ST 314 & IE 212

- ST 314

- ST 314

- IE 367
  Production Planning and Control (4cr, F)

- IE 368
  Facilities Design and Operations Management (4cr, W)

- CH 202

- IE 355
  Statistical Quality Control (4cr, F)

- IE 356
  Experimental Design (4cr, W)

- MTH 306

- IE 425
  Industrial Systems Optimization (4cr, F)

- MTH 252

- IE 201
  Electrical Fundamentals (3cr, FWSpSu)

- ST 314

- IE 407
  MECOP Seminar (1cr, F)

- MATS 321
  Materials Science (4cr, FWSu)

- FIN 342
  Capstone Design (Business Engr. Option Only) (4cr)

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