Pre-Industrial Engineering

**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.
- 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).
## Industrial Engineering – Non MECOP

### Fall
- **IE 355** Statistical Quality Control (4cr, F)
- **IE 356** Experimental Design (4cr, W)
- **ENGR 201** Electrical Fundamentals (3cr, F/WSpSu)
- **MATS 321** Materials Science (4cr, FWSpSu)
- **MFGE 336** Production Engineering (4cr, W)

### Winter
- **MTH 252**
- **IE 367** Production Planning and Control (4cr, F)
- **IE 368** Facilities Design and Operations Management (4cr, W)
- **BA 390** Marketing (Business Engr. Option only) (4cr)
- **IE 412** Information Systems Engineering (4cr, F)
- **IE 415** Simulation & Decision Support Systems (4cr, W)

### Spring
- **IE 471** Proj. Mgmt in Engineering Business Engineering Option (3cr, W/F)
- **IE 497** MIME Capstone Design (4cr, F)
- **IE 498** MIME Capstone Design (4cr, W)
- **FIN 342** (Business Engr. Option Only) (4cr)
- **BA 390** Marketing (Business Engr. Option only) (4cr)

### Restricted Electives
- **IE 212**
- **IE 212**
- **IE 355**
- **IE 355**
- **IE 355**
- **IE 355**
- **CH 202**
- **ME 250, ENGR 213, ENGR 248, & ENGR 321**
- **BA 211**
- **BA 230**
- **BA 231**
- **IE 355, IE 356, IE 366, IE 367, IE 368, WR 327**
- **IE 355, IE 356, IE 366, IE 367, IE 368, WR 327**
- **IE 470**

### Course Requirements
- **IE 355** Statistical Quality Control (4cr, F)
- **IE 356** Experimental Design (4cr, W)
- **ENGR 201** Electrical Fundamentals (3cr, F/WSpSu)
- **MATS 321** Materials Science (4cr, FWSpSu)
- **MFGE 336** Production Engineering (4cr, W)

### Course Offerings
- **Fall:** **IE 425** Industrial Systems Optimization (4cr, F)
- **Fall:** **IE 426** Stochastic Models (4cr, W)
- **Winter:** **IE 426** Stochastic Models (4cr, W)
- **Spring:** **BA 390** Marketing (Business Engr. Option only) (4cr)

### Access to Shaded Courses
- Access to shaded courses requires entrance to the IE professional program.

### Bacc Core Electives
- **BACC CORE Elective**
- **WC, CD, LA, SPI, DPD, BIO, CGI, STS**

### Notes
- 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.
- Access to shaded courses requires entrance to the IE professional program.
- 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).
Industrial Engineering – MECOP

Fall
- Restricted Elective (Business Engr. Option = BA 211)
- MFGE 336 Production Engineering (4cr, W)
- IE 355 Statistical Quality Control (4cr, F)
- IE 367 Production Planning and Control (4cr, F)
- MATH 321 Materials Science (4cr, F)
- MECOP 407 MECOP Seminar (1cr)

Winter
- IE 212 Information Systems Engineering (4cr, F)
- IE 356 Experimental Design (4cr, W)
- IE 368 Facilities Design and Operations Management (4cr, W)
- IE 425 Industrial Systems Optimization (4cr, F)
- IE 447 Electrical Fundamentals (3cr, FWSpSu)

Spring
- IE 412 Information Systems Engineering (4cr, F)
- IE 426 Stochastic Models (4cr, F)
- MTH 252 Electrical Fundamentals (3cr, FWSpSu)
- IE 471 Proj. Mgmt in Engineering Business Engineering Option (4cr)

Summer
- IE 415 Simulation & Decision Support Systems (4cr, W)
- FIN 342 Financial Management (Business Engr. Option Only) (4cr)
- ENGR 201 Electrical Fundamentals (3cr, FWSpSu)
- IE 471 Proj. Mgmt in Engineering Business Engineering Option (3cr, WSp)

Internship
- BA 390 Marketing (Business Engr. Option only) (4cr)
- IE 497 MIME Capstone Design (4cr, F)
- IE 498 MIME Capstone Design (4cr, W)
- Restricted Elective (Business Engr. Option = IE 470)
- Restricted Elective (Business Engr. Option = IE 470)
- Restricted Elective (Business Engr. Option = IE 470)

Access to shaded courses requires entrance to the IE professional program.
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 and need only be taken sometime before graduation.

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