Pre-Industrial Engineering

First year

**Fall**
- MTH 103: Algebraic Reasoning (4cr, FWSp)
- WR 121: English Composition (3cr, FWSpSu)
- ENGR 199: Foundation for Engr Success (2, F)
- BACC CORE Elective: WC, CD, LA, DPD, BIO, CGI, STS

**Winter**
- MTH 111: College Algebra (4cr, FWSpSu)
- HHS 231: Lifetime Fitness for Health (2cr, FWSpSu)
- PAC course (1cr, FWSpSu)
- Biology + Lab (4cr, FWSpSu)

**Spring**
- MTH 112: Elementary Functions (4cr, FWSpSu)
- COMM 111 or 114 (3cr, FWSpSu)
- BACC CORE Elective: WC, CD, LA, DPD, BIO, CGI, STS

Second year

**Fall**
- MTH 251: Differential Calculus (4cr, FWSpSu)
- CH 201: Intro to MIME (3cr, F)
- ENGR 199: Foundation for Engr Success (2, F)

**Winter**
- MTH 252: Integral Calculus (4cr, FWSpSu)
- CH 202: Chemistry for Engineers (3cr, FW)
- BACC CORE Elective: WC, CD, LA, DPD, BIO, CGI, STS
- BACC CORE Elective: WC, CD, LA, DPD, BIO, CGI, STS

**Spring**
- MTH 254: Vector Calculus (4cr, FWSpSu)
- ENGR 213: Strength of Materials (3cr, FWSpSu)
- ENGR 390: Engr. Economy (3cr, FWSpSu)
- WR 327: Technical Writing (3cr, FWSpSu)
- ME 250: Intro to Manuf. Processes (1cr, FWSpSu)

Third year

**Fall**
- MTH 256: Differential Equations (4cr, FWSpSu)
- PH 212: Physics w/ Calculus (4cr, FWSp)
- IE 285: Intro to Industrial & Manufacturing Engr (3cr, F)
- IE 212: Comp. Meth for IE (4cr, F)

**Winter**
- MTH 306: Matrix & Power Series Methods (4cr, FWSpSu)
- PH 213: Physics w/ Calculus (4cr, WiSpSu)
- PH 211, MTH 252

**Spring**
- ST 314: Statistics for Engineers (3cr, FWSpSu)
- ENGR212: Dynamics (3cr, FWSpSu)
- ENGR 390: Engr. Economy (3cr, FWSpSu)
- PH 211, MTH 252

**Pro School**
- ENGR 212: Strength of Materials (3cr, FWSpSu)
- ENGR 213: Strength of Materials (3cr, FWSpSu)
- ENGR 390: Engr. Economy (3cr, FWSpSu)
- WR 327: Technical Writing (3cr, FWSpSu)
- ME 250: Intro to Manuf. Processes (1cr, FWSpSu)

**Notes:**
- Soph = Sophomore standing in engineering required to enroll in this class.
- Lightly shaded courses are prerequisites for junior year courses, and recommended for completion prior to entry into the professional program.
- Grades in dark-shaded courses are used to determine pre-Core GPA and are required for 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).