**Pre-Manufacturing Engineering**

First year

- **Fall**
  - MTH 103: Algebraic Reasoning (4cr, FWSpSu)
  - 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: Chemistry for Engineers (3cr, FW)
  - MTH 252: Integral Calculus (4cr, FWSpSu)
  - CH 202: Chemistry for Engineers (3cr, WSp)
  - ENGR 212: Intro to MIME (3cr, F)

- **Winter**
  - MTH 254: Vector Calculus (4cr, FWSpSu)
  - PH 211: Physics w/ Calculus (4cr, FWSpSu)

- **Spring**
  - MTH 256: Differential Equations (4cr, FWSpSu)
  - ENGR 213: Strength of Materials (3cr, FWSpSu)
  - ENGR 212: Dynamics (3cr, FWSpSu)
  - ENGR 390: Engr. Economy (3cr, FWSpSu)
  - IE 112: Intro to Industrial & Manufacturing Engr (3cr, F)
  - ME 250: Intro to Manuf Processes (1cr,FWSpSu)

Third year

- **Fall**
  - MTH 254: Statistics for Engineers (3cr, FWSpSu)
  - ENGR 213: Strength of Materials (3cr, FWSpSu)
  - PH 212: Physics w/ Calculus (4cr, FWSpSu)
  - PH 213: Physics w/ Calculus (4cr, FWSpSu)

- **Winter**
  - MTH 306: Statistics for Engineers (3cr, FWSpSu)
  - ENGR 212: Dynamics (3cr, FWSpSu)
  - PH 212: Engr. Economy (3cr, FWSpSu)
  - WR 327: Technical Writing (3cr, FWSpSu)
  - ME 250: Intro to Manuf Processes (1cr,FWSpSu)

- **Spring**
  - MTH 306: Matrix & Power Series Methods (4cr, FWSpSu)
  - ENGR 213: Strength of Materials (3cr, FWSpSu)
  - MTH 252: Integral Calculus (4cr, FWSpSu)
  - ENGR 212: Dynamics (3cr, FWSpSu)
  - ME 250: Intro to Manuf Processes (1cr,FWSpSu)

Pro School

- **Fall**
  - ST 314: Statistics for Engineers (3cr, FWSpSu)
  - ENGR 212: Dynamics (3cr, FWSpSu)
  - MFGE 285: Intro to Industrial & Manufacturing Engr (3cr, F)

- **Winter**
  - MTH 252: Integral Calculus (4cr, FWSpSu)
  - PH 212: Physics w/ Calculus (4cr, FWSpSu)
  - WR 327: Technical Writing (3cr, FWSpSu)

- **Spring**
  - MTH 254: Vector Calculus (4cr, FWSpSu)
  - ENGR 212: Dynamics (3cr, FWSpSu)

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**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 MfgE 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).**

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**Updated 7.31.14**

**Soph = Sophomore standing in engineering required to enroll in this class.**

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- **Recommended Pre-Req MTH 251**
- **†** 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.