Pre-Energy Systems Engineering

Fall Winter Spring Fall Winter Spring

**Recommended Pre-Req MTH 251**

MIME 101 Engr. Orientation (3cr, F)

ENGR 112 Engr. Computing (MATLAB) (3cr, FWSpSu)

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

BA 215 Fundamentals of Accounting (4cr, FWSpSu)

ENGR 201 Electrical Fundamentals (3cr, FWSpSu)

ENGR 202 Electrical Fundamentals II (3cr, WSuSpSu)

MTH 251 Differential Calculus (4cr, FWSpSu)

MTH 252 Integral Calculus (4cr, FWSpSu)

MTH 254 Vector Calculus (4cr, FWSpSu)

MTH 256 Differential Equations (4cr, FWSpSu)

MTH 306 Matrix & Power Series Methods (4cr, FWSpSu)

ST 314 Statistics For Engineers (3cr, FWSpSu)

CH 201 Chemistry for Engineers (3cr, F)

CH 202 Chemistry for Engineers (3cr, W)

CH 205 Chemistry for Engineers Lab (1cr, Sp)

ENGR 211 Statics (3cr, FWSpSu)

IE 212 Computational Methods for Industrial Engineering (4cr, WSu)

ENGR 212 Dynamics (3cr, FWSpSu)

COMM 111/114 Speech (3cr, FWSpSu)

PH 211 Physics w/Calculus (4cr, FW)

PH 212 Physics w/Calculus (4cr, FW)

PH 213 Physics w/Calculus (4cr, WSu)

WR 121 English Composition (3cr, FWSpSu)

ECON 201 Micro-Economics SPI Perspective (4cr, FWSpSu)

HHS 231 + HHS Lab or PAC class (2+1cr, FWSpSu)

WR 327 Technical Writing (3cr, FWSpSu)

** Restricted Electives: Students completing the ESE degree must complete 6 credits in this category. 3 of these credits can be at the 200-level, and the other 3 must be 300-level or above. Choices for 200-level include ENGR 248, ENGR 213, and ENGR 203.

** 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 EEM majors, the seven Bacc Core Elective courses consist of one course each in the areas of western culture (WC), cultural diversity (CD), literature and the arts (LA), biological science (BIO), difference, power and discrimination (DPD), contemporary global issues (CGI), and science, technology and society (STS).
Initial Math placement is dependent on ALEKS placement score.  
* ECON 201 also satisfies OSU's baccalaureate core requirement for a Social Processes and Institutions Perspectives Elective.  
** 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 ME majors, the seven Bacc Core Elective courses consist of one course each in the areas of western culture (WC), cultural diversity (CD), literature and the arts (LA), biological science (BIO), difference, power and discrimination (DPD), contemporary global issues (CGI), and science, technology and society (STS).