Pre-Energy Systems Engineering

Fall  | Winter  | Spring   | Fall    | Winter  | Spring  
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MIME 101 | ENGR 112 | BACC CORE Elective | BA 215 | ENGR 201 | ENGR 202
(3cr, F) | (3cr, FWSpSu) | (DPD recommended) | (4cr, FWSpSu) | (3cr, FWSpSu) |
MTH 251 | MTH 252 | MTH 254 | MTH 256 | MTH 306 | ST 314
Differential Calculus | Integral Calculus | Vector Calculus | Differential Equations | Matrix & Power Series Methods | Statistics For Engineers
(4cr, FWSpSu) | (4cr, FWSpSu) | (4cr, FWSpSu) | (4cr, FWSpSu) | (4cr, FWSpSu) |
CH 201 | CH 202 | CH 205 | ENGR 211 | IE 212 | ENGR 212
Chemistry for Engineers | Chemistry for Engineers | Chemistry for Engineers Lab | Statics | Computational Methods for Industrial Engineering | Dynamics
(3cr, F) | (3cr, W) | (1cr, Sp) | (3cr, FWSpSu) | (4cr, WSpSu) |
WR 121 | COMM 111/114 | PH 211 | PH 212 | PH 213 | WR 327
English Composition | Speech | Physics w/Calculus | Physics w/Calculus | Physics w/Calculus | Technical Writing
(3cr, FWSpSu) | (3cr, FWSpSu) | (4cr, FSpSu) | (4cr, F) | (4cr, WSpSu) |
ECON 201 | HHS 231 + HHS Lab or PAC class | Restricted Elective* | HHS 231 + HHS Lab or PAC class | Restricted Elective* | (3 cr)
Micro-Economics SPI Perspective | (4cr, FWSpSu) | | (2+1cr, 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).
Energy Systems Engineering – Non MECOP
Professional Program located at OSU Cascades Campus

Fall
- SUS 350 Sustainable Communities
  CGI Synthesis (4cr, F)
- ESE 355 Energy Regulation
  (4cr, W)
- ME 311 Intro. Thermal Fluid Sciences
  (4cr, F)
- ESE 356 Energy Consumption Analysis
  (4cr, Sp)
- ME 312 Thermodynamics
  (4cr, W)
- BA 352 Managing Individual & Team Perf.
  (4cr, Sp)
- MTH 256
- ST 314
- BA 356 Intro to Financial Mgt.
  (4cr)
- ENGR 212 MTH 256
- ME 331 Intro. Fluid Mechanics
  (4cr, F)
- IE 415 Simulation & Decision Support Systems
  (4cr, W)
- MTH 256, ENGR 212 & ME 311
- ME 332 Heat Transfer
  (4cr, W)
- BA 215 or BA 217
- ST 314
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS

Winter
- ESE 470 Energy Distribution Systems
  (4cr, F)
- BA 352 Managing Individual & Team Perf.
  (4cr, Sp)
- ME 331 Intro. Fluid Mechanics
  (4cr, F)
- IE 425 Industrial Systems Optimization
  (4cr, F)
- BA 352 Managing Individual & Team Perf.
  (4cr, Sp)
- ME 332 Heat Transfer
  (4cr, W)
- ST 314
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS
- MGMT 364 Project Management
  (4cr, W)
- BA 352
- ST 314
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS

Spring
- ESE 471 Energy Storage Systems
  (4cr, W)
- BA 352 Managing Individual & Team Perf.
  (4cr, Sp)
- ME 331 Intro. Fluid Mechanics
  (4cr, F)
- BA 357 Operations Management
  (4cr, W)
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS
- MGMT 364 Project Management
  (4cr, W)
- BA 352
- ST 314
- BACC CORE Elective
  WC, CD, LA, DPD, BIO STS

See advisor for list of approved restricted electives
Access to shaded courses requires entrance to the ESE professional program.
Su Courses listed in red as being available during a term, may or may not actually be offered.
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Updated 9/28/15