BSIE - Industrial and Systems Engineering Program

UMD Mechanical and Industrial Engineering

Freshmen Year
- Fall: 16 Credits
  - College Writing Writ 1120 (3) LEC 1
  - Gen. Chem. Lab I Chem 1154 (1) LEC 4/5
  - Calculus I Math 1296 (5) LEC 2
  - Introduction to Solid Modeling ENGR 1222 (2)
  - Introduction to Engineering ENGR 1210 (2)
  - Computer Science CS 1121 (3) or CS 1511 (5) or CS 2121 (3) LEC 3
- Spring: 16 Credits
  - Materials Science ME 2105 (3)
  - Math. Science ME 2105 (3)
  - Stat for Engineers Stat 3411 (3)
  - Advanced Writing Writ 3306/5380 (3)
  - Six-Sigma Quality IE 4010 (3)
  - Lean Production Management IE 4020 (3)
  - Engineering Prof. and Practice EMGT 4110 (2)
  - Systems Integration ENGR 4230 (3)

Sophomore Year
- Fall: 16 Credits
  - Materials Engineering Lab IE 3122 (2)
  - Mat'l Processing Engineering IE 3130 (3)
  - Eng. Economic Analysis IE 3125 (3)
  - System Integration Lab IE 4222 (2)
  - MIE Seminar IE 4993 (1)
- Spring: 16 Credits
  - Human Factors IE 3140 (3)
  - Dynamics ME 2226 (3)
  - Circuits ECE 2006 (4)
  - Operations Research IE 3115 (4)
  - IE Elective ME 3111 or IE 4495 or IE 53x5 (3)

Junior Year
- Fall: 17 Credits
  - Advanced Writing Writ 3306/5380 (3)
  - Six-Sigma Quality IE 4010 (3)
  - Lean Production Management IE 4020 (3)
  - System Integration Lab IE 4222 (2)
  - MIE Seminar IE 4993 (1)
- Spring: 15 Credits
  - Lean Production Management IE 4020 (3)
  - Systems Integration Lab IE 4222 (2)
  - IE Elective ME 3111 or IE 4495 or IE 53x5 (3)
  - IE Elective ME 3111 or IE 4495 or IE 53x5 (3)
  - Multidisciplinary Senior Design IE 4255 (4)

Senior Year
- Fall: 12 Credits
  - Lean Production Management IE 4020 (3)
  - Systems Integration Lab IE 4222 (2)
  - IE Elective ME 3111 or IE 4495 or IE 53x5 (3)
  - IE Elective ME 3111 or IE 4495 or IE 53x5 (3)
- Spring: 16 Credits
  - Lean Production Management IE 4020 (3)
  - Systems Integration Lab IE 4222 (2)
  - IE Elective ME 3111 or IE 4495 or IE 53x5 (3)
  - IE Elective ME 3111 or IE 4495 or IE 53x5 (3)
  - Business Elective Comm 3112 or Psy 1003 or Actv 2001 or Lirc 3201 (3)

127 Credits Total

NOTES:
Liberal education courses must meet Cultural Diversity and International Perspective requirements.
Solid arrows are pre-requisites, dashed arrows are co-requisites, courses in bold boxes are offered only once per year.
Students must maintain 2.50 GPA or better, receive C- or better in all courses, and maintain 75% course completion ratio.