### Undergraduate Program in Industrial and Systems Engineering
The Ohio State University
Beginning courses at OSU Autumn Quarter 2010

**COURSES WHICH MUST BE COMPLETED BEFORE APPLYING TO ISE MAJOR:**

Student must have at least a 2.0 Cum GPA and at least a 3.0 cumulative in these EPHR courses (OR IN their equivalent courses):

- ENG 181.xx (3) (or ENG H191)  
- ENG 183.xx (3) (or ENG H193)  
- CSE 205 (4)  
- ENGLISH 110.xx (5)  
- MATH 151.xx (5)  
- MATH 152.xx (5)  
- PHYSICS 131 (5)  
- PHYSICS 132 (5)  
- PHYSICS 131 (5)  
- PHYSICS 132 (5)

**OTHER COURSES TO BE TAKEN BEFORE BEGINNING ISE MAJOR CORE COURSES:**

- QUARTER:
  - **Choose two:** Chem 121, Chem 122, Chem 125, Bio 113, Bio 114 or Physics 133)  
  - Additional Science (4)  
  - Additional Science (3-4)  
  - ME 410 (4)  
  - ME 420 (4)  
  - ENG. SCIENCE (3) (choose from: ME 430, ME 500, MSE 205, ECE 300, Other Upper Level ENG. Course)  
  - STATISTICS 427 (3)  
  - STATISTICS 3470 (3)

- SEMESTER:
  - **Choose two:** Physics *, Chemistry 1250, Biology 2100)  
  - Additional Science (4)  
  - Additional Science (4)  
  - ME 2040 (4)  
  - ENG. SCIENCE (3) (choose from: ME 2030, ME 3500, MSE 2010, ECE 2300, CSE 2111, CSE 2122, ME 2850)  
  - STATISTICS 428 (3)  
  - STATISTICS 3470 (3)

**Gen Ed Course Planning:**

1. **1st Writing Course**  
2. **2nd Writing Course**  
3. **Social Science (Subgrp__)**  
4. **History**  
5. **Arts & Hum (Subgrp__)**  

**Sequence of ISE core courses:**

- **First Semester in Major**
  - ENGINEER 2367
  - ISE 2400 (2)
  - ISE 2040 (2)
  - ISE 2500 (3)
  - Technical Elective

- **Second Semester in Major**
  - ISE 3200 (3)
  - ISE 3600 (3)
  - ISE 3700 (3)
  - Technical Elective

- **Third Semester in Major**
  - ISE 3210 (3)
  - ISE 3400 (4)
  - ISE 3800 (3)
  - ISE 4120 (3)

- **Fourth Semester in Major**
  - ISE 4900 (4)
  - Technical Elective

- **Final Semester in Major**
  - ISE 5100 (4)
  - Technical Elective
  
**Physics Note:**
- Physics 1250 = Physics 131+ Half of 133
- Physics 1251 = Physics 132+ Other half of 133
- Physics 1240 = 1st half of 133 (2 credit hours)
- Physics 1241 = 2nd half of 133 (2 credit hours)