2008-2010 IE Degree Plan Advising Flowchart

**Lower Division**

- IE 1205 + Graphic Fundamentals
- MATH 1411 + Calculus I (MATH 1508+)
- ENGL 1311 + English Composition
- CHEM 1305+ General Chemistry (MATH 1508+)
- IE 2303 + Mts and Mfg Proc (CHEM 1305+)
- MATH 1312+ Calculus II (MATH 1411+)
- ENGL 1312+ Research and Critical Writing (ENGL 1311+)
- PHYS 2421+ Fields and Waves (MATH 1312+, OR CONC WITH MATH 1312+)
- IE 2315+ Statics (MATH 1411+)
- MATH 2313 + Calculus III (MATH 1312+)
- IE 2326 + Engineering Economy (MATH 1411+)
- IE 2377+ Electromech Systems (PHYS 2421+)
- MATH 2326+ Differential Equations (MATH 1312+)
- IE 2126 Manufacturing Engineering Lab

**Upper Division**

- IE 3331 Systems Engineering. (IE 3373+)
- IE 3373+ Engineering Probability (MATH 2313+)
- MATH 3323 + Matrix Algebra (MATH 1312+)
- Technical Elective* Sp&Fa
- IE 3332 Safety Engineering (IE 3373+)
- IE 3352 Design of Experiments (IE 3373+)
- Math 4329 Numerical Analysis (MATH 3323+)
- IE 3477 Methods and Ind. Ergonomics (IE 3373+)
- IE 4353 Industrial Systems Simulation (IE 3373+)
- IE 4391 Production and Inv. Control (IE 3373+)
- IE 3390 Operations Research I (IE 3373+ and MATH 3323+)
- IE 4384 Industrial Layout (IE 3373+)
- IE 4385 Stat. Quality Control and Reliability (IE 3373+)
- IE 4466 Senior Design
- IE 4490 Operations Research II (IE 3390)
- Technical Elective* Sp&Fa

**Total Semester Credit Hours: 120**

**NOTES:**

Prerequisites listed in parentheses

(Fa) Course offered only on Fall term; (Sp) Course offered only on Spring term; All the other courses are offered Fall, Spring and Summer terms
+ Grade of “C” or better required.

* Selected from the approved Technical Elective list from the COE, COBA and CS. Must be Junior or Senior level.