Bachelor of Science in Industrial Operations Engineering (BSIOE) Flowchart (Fall 2012, 132 credit hours)

**FRESHMAN**

- CHM 1213 University Chemistry 1
- CHM 1221 Unv. Chemisty 1 Laboratory
- EGE 1023 Engineering Materials
- EGE 1012 Intro. to Engineering
- MCS 1414 Calculus 1
- SSC 2303 Principles of Economics
- COM 1103 English Composition
- COM 1001 University Seminar
- LLT 1213 World Masterpieces 1
- LLT 1223 World Masterpieces 2
- SSC 2413 Foundations of American Exper.
- COM 2103 Tech. & Prof. Communication
- LDR 2001 Leadership Models & Prac.

**SOPHOMORE**

- CHM 2413 University Physics 1
- PHY 2423 University Physics 2
- PHY 2421 Univ. Physics 1 Laboratory
- MCS 2414 Calculus 3
- MCS 2423 Differential Equations
- EGE 2013 Statics
- IOE 2012 Engineering Graphics
- EME 2011 Eng Materials Laboratory
- IOE 3021 Statistical Mthds
- LDR 3000 Leadership Seminar

**JUNIOR**

- EGE 2411 Engineering Materials
- MCS 3403 Probability & Statistics
- IOE 3033 Eng. Numerical Methods
- MCS 3423 Finite Element Methods
- IOE 3034 Statistical Mthds for Process Improv
- LDR 4000 Leadership Capstone

**SENIOR**

- CHM 1213 University Chemistry 1
- CHM 1221 Unv. Chemistry 1 Laboratory
- EGE 1023 Engineering Materials
- EGE 1012 Intro. to Engineering
- MCS 1414 Calculus 1
- SSC 2303 Principles of Economics
- COM 1103 English Composition
- COM 1001 University Seminar
- LLT 1213 World Masterpieces 1
- LLT 1223 World Masterpieces 2
- SSC 2413 Foundations of American Exper.
- COM 2103 Tech. & Prof. Communication
- LDR 2001 Leadership Models & Prac.

**Senior Project Sequence**

- Competition Projects: IOE 3011, IOE 4211, IOE 4222
- Noncompetition Projects: EME 4252, EME 4253

**Classification**

- Freshman 0-29
- Sophomore 30-59
- Junior 60-89
- Senior 90+

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1. **Prerequisite (course 1 must be taken first before taking course 2)**
2. **Corequisite (courses 1 and 2 must be taken concurrently)**
3. **Courses 1 and 2 may be taken concurrently or course 1 may be taken first before taking course 2**

* A list of acceptable elective courses is available at the ME Dept. (E29).

# Take exam when 60-80 credit hours have been completed.
& Take any time during or after Senior Project Sequence.

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V. Fernandez
6-5-2012

Freshman/Sophomore general education requirements (COM, LLT and SSC courses) must be completed before Junior year (60 credit hours) or you will be placed on probation.

**All graduating seniors must submit a Petition to Graduate form. The form is available at the One Stop Center. Students should submit the form one semester prior to the semester in which they plan to graduate; i.e., for Spring (May) graduation, submit form in Fall (September).**