

# *Industrial Engineering (2010-11)*

**Below is the *advised sequencing* of courses for this degree,  
the official degree requirements are found in the University General Catalog.**

| FRESHMAN YEAR                |       |                   |       | SOPHOMORE YEAR |       |                 |       |
|------------------------------|-------|-------------------|-------|----------------|-------|-----------------|-------|
| First Semester               |       | Second Semester   |       | First Semester |       | Second Semester |       |
| Course                       | Units | Course            | Units | Course         | Units | Course          | Units |
| ENGR 102                     | 3     | ECE 175           | 3     | SIE 250        | 3     | SIE 265         | 3     |
| MATH 125 or 124 <sup>#</sup> | 3/5   | CHEM 152          |       | SIE 277        | 3     | SIE 270         | 3     |
| CHEM 151                     | 4     | or MSE 110 or MCB | 4     | MATH 223       | 4     | SIE 295S        | 1     |
| ENGL 101                     | 3     | 181R/L            |       | PHYS 241       | 4     | Engr Science*** | 4     |
| Tier 1 INDV*                 | 3     | MATH 129          | 3     | Tier 1 TRAD*   | 3     | Tier 1 INDV*    | 3     |
|                              |       | PHYS 141          | 4     |                |       | Tier 1 TRAD*    | 3     |
|                              |       | ENGL 102          | 3     |                |       |                 |       |
| TOTAL                        | 16/18 | TOTAL             | 17    | TOTAL          | 17    | TOTAL           | 17    |

| JUNIOR YEAR    |       |                 |       | SENIOR YEAR    |       |                 |       |
|----------------|-------|-----------------|-------|----------------|-------|-----------------|-------|
| First Semester |       | Second Semester |       | First Semester |       | Second Semester |       |
| Course         | Units | Course          | Units | Course         | Units | Course          | Units |
| SIE 305        | 3     | SIE 321         | 3     | SIE 431        | 3     | ENGR 498B       | 3     |
| SIE 340        | 3     | SIE 330R        | 3     | SIE 462        | 3     | Option Elect**  | 3     |
| SIE 377        | 3     | SIE 370         | 4     | Option Elect** | 3     | Option Elect**  | 3     |
| SIE 410A       | 3     | SIE 383         | 3     | ENGR 498A      | 3     | Select from     | 3     |
| ENGL 308       | 3     |                 |       | Option Elect** | 3     | list****        |       |
|                |       |                 |       | Tier 2 INDV*   | 3     | Tier 2 Art/Hum* | 3     |
| TOTAL          | 15    | TOTAL           | 13    | TOTAL          | 18    | TOTAL           | 15    |

TOTAL UNITS = 128

# Math 124 is a 5-unit version of Math 125. Students taking Math 124 should consider delaying the Tier 1 INDV course to maintain a reasonable academic load.

\* INDV/TRAD courses must meet University general education requirements. One course must be recognized by the University as focusing on non-western culture, race, gender or ethnicity. TRAD 101 satisfies this requirement.

\*\*Option electives must be approved by the student's advisor.

\*\*\* AME 230 or CE 214 or ECE 207 plus 1 unit of ENGR 211. ENGR 211P may not be taken for credit.

\*\*\*\*BNAD 302, PSY 319, 325, 326, 346, 352, 360, 375, or 376.