

Name \_\_\_\_\_ I.D. No. \_\_\_\_\_

## INDUSTRIAL ENGINEERING Curriculum Sheet REVISED 9-17-08

| <b><u>Fall Semester – Year 1</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 1</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
|--|-------------------|---------------------|--|-------------------|---------------------|
| ENG 101 English I                            | 4                 | _____               | ENG 102 English II                             | 3                 | _____               |
| MTH 181 Calculus I                           | 4                 | _____               | MTH 182 Calculus II                            | 4                 | _____               |
| CHM 261 General Chemistry I                  | 4                 | _____               | PHY 243 University Physics I (Writing)         | 5                 | _____               |
| CHM 266 General Chemistry Lab I              | 1                 | _____               | CSC 121 Career Orientation**                   | 1                 | _____               |
| ESC 120 Introduction to Engineering          |                   |                     | Gen Ed   | 3                 | _____               |
|  |                   |                     | Elective _____                                 |                   |                     |
| Design***                                    | 2                 | _____               |  |                   |                     |
| ESC 100 New Student Orientation*             | 1                 | _____               |  |                   |                     |
|  |                   |                     |  |                   |                     |
| <b><u>Fall Semester – Year 2</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 2</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
| MTH 284 Matrices for Engineers               | 2                 | _____               | ESC 203 Statics and Dynamics                   | 4                 | _____               |
| PHY 244 University Physics II (Writing)      | 5                 | _____               | ESC 310 Engineering Statistics and Probability | 3                 | _____               |
| ESC 151 C Programming                        | 3                 | _____               | ESC 321 Thermodynamics I                       | 3                 | _____               |
| ESC 250 Differential Equations for Engineers | 3                 | _____               | COM 242 Public & Professional Speaking         | 3                 | _____               |
| ESC 270 Materials Science                    | 3                 | _____               | Gen Ed   | 3                 | _____               |
|  |                   |                     | Elective _____                                 |                   |                     |
|  |                   |                     |  |                   |                     |
| <b><u>Fall Semester – Year 3</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 3</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
| IME 250 Material Processing and Methods      | 3                 | _____               | IME 331 Operations Research II                 | 3                 | _____               |
| IME 251 Material Processing and Methods Lab  | 1                 | _____               | IME 405 Human Factors Engineering              | 3                 | _____               |
| IME 304 Work Design                          | 3                 | _____               | IME 410 Statistical Quality Control            | 3                 | _____               |
| IME 305 Work Design Lab                      | 1                 | _____               | IME 477 Facility Planning                      | 3                 | _____               |
| IME 320 Engineering Experimental Design      | 3                 | _____               | IME 478 Facility Planning Lab                  | 1                 | _____               |
| IME 330 Operations Research I                | 3                 | _____               | ESC 315 Electrical Engineering Concepts        | 3                 | _____               |
| ESC 282 Engineering Economy                  | 3                 | _____               |  |                   |                     |
|  |                   |                     |  |                   |                     |
| <b><u>Fall Semester – Year 4</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> | <b><u>Spring Semester – Year 4</u></b>         | <b><u>Cr.</u></b> | <b><u>Grade</u></b> |
| IME 465 Manufacturing Systems Engineering    | 3                 | _____               | IME 475 Systems Simulation                     | 3                 | _____               |
| IME 470 Production Planning and Control      | 3                 | _____               | IME 481 Senior Design (Writing)                | 2                 | _____               |
| IME 480 Engineering Design (Writing)         | 3                 | _____               | PHL 215 Engineering Ethics (Writing)           | 3                 | _____               |
| Tech. Elective                               | 3                 | _____               | Tech.  | 3                 | _____               |
| _____  |                   |                     | Elective _____                                 |                   |                     |
| Gen Ed                                       | 3                 | _____               | Gen Ed   | 3                 | _____               |
| Elective _____                               |                   |                     | Elective _____                                 |                   |                     |
|  |                   |                     | Gen Ed   | 3                 | _____               |
|  |                   |                     | Elective _____                                 |                   |                     |

\*Not required for transfer students.

\*\*Required for all Industrial Engineering students.

\*\*\*Required for freshmen and transfer students admitted to Engineering College Fall 2003 and after.

Minimum number of credits required for degree: 129; (128 excluding ESC 100 – New Student Orientation).



Name \_\_\_\_\_ I.D. \_\_\_\_\_

No. \_\_\_\_\_

## INDUSTRIAL ENGINEERING Co-op Curriculum Sheet REVISED 9-17-08

| <u>Year 1 Fall Semester</u>        | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u>                      | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u>                   |
|------------------------------------|------------|--------------|---|------------|--------------|--|
| ENG 101 English I                  | 4          | —            | ENG 102 English II                          | 3          | —            | Work or School                           |
| MTH 181 Calculus I                 | 4          | —            | MTH 182 Calculus II                         | 4          | —            |  |
| CHM 261 Gen. Chemistry I           | 4          | —            | PHY 243 University Physics I                |            |              |  |
| CHM 266 Gen. Chem. Lab I           | 1          | —            | (Writing)                                   | 5          | —            |  |
| ESC 120 Intro to Engr. Design***   | 2          | —            | CSC 121 Career Orientation**                | 1          | —            |  |
| ESC 100 New Student Orient.*       | 1          | —            | Gen Ed<br>Elective _____                    | 3          | —            |  |
| <br><u>Year 2 Fall Semester</u>    |            |              | <br><u>Spring Semester</u>                  |            |              | <br><u>Summer Semester Cr. Grade</u>     |
| MTH 284 Matrices for Engrs.        | 2          | —            | ESC 203 Statics & Dynamics                  | 4          | —            | Co-op:                                   |
| PHY 244 Univ. Physics II (Writing) | 5          | —            | ESC 310 Engr. Statistics and<br>Probability | 3          | —            | #ESC 300 Co-op 1 _____<br>Ed. Experience |
| ESC 151 C Programming              | 3          | —            | ESC 321 Thermodynamics                      | 3          | —            |  |
| ESC 250 Diff. Equations for Engr.  | 3          | —            | COM 242 Public & Professional<br>Speaking   | 3          | —            |  |
| ESC 270 Materials Science          | 3          | —            | Gen Ed<br>Elective _____                    | 3          | —            |  |
| <br><u>Year 3 Fall Semester</u>    |            |              | <br><u>Spring Semester</u>                  |            |              | <br><u>Summer Semester Cr. Grade</u>     |
| IME 250 Matrl. Process. & Meth.    | 3          | —            | Co-op:                                      |            |              | ESC 282 Engr. Econ. 3 _____              |
| IME 251 Matrl. Process/Meth. Lab   | 1          | —            | #ESC 300 Co-op Ed. Exper.                   | 1          | —            |  |
| IME 304 Work Design                | 3          | —            |   |            |              |  |
| IME 305 Work Design Lab            | 1          | —            |   |            |              |  |
| IME 320 Engr. Experiment. Design   | 3          | —            |   |            |              |  |
| IME 330 Operations Research I      | 3          | —            |   |            |              |  |
| <br><u>Year 4 Fall Semester</u>    |            |              | <br><u>Spring Semester</u>                  |            |              | <br><u>Summer Semester Cr. Grade</u>     |
| Co-op:                             |            |              | IME 331 Operations Analysis II              | 3          | —            | Co-op                                    |
| #ESC 300 Co-op Ed. Experience      | 1          | —            | IME 405 Human Factors Engr.                 | 3          | —            | #ESC 300 Co-op 1 _____                   |
|                                    |            |              | IME 410 Statistical Quality<br>Control      | 3          | —            | Ed. Experience                           |

|                               |   |       |
|-------------------------------|---|-------|
| IME 477 Facility Planning     | 3 | _____ |
|                               |   | -     |
| IME 478 Facility Planning Lab | 1 | _____ |
|                               |   | -     |
| ESC 315 Electrical Engr.      | 3 | _____ |
| Concepts                      |   | -     |

| <u>Year 5</u> <u>Fall Semester</u>       | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u>         | <u>Cr.</u> | <u>Grade</u> |
|--|------------|--------------|--------------------------------|------------|--------------|
| IME 465 Manufac. Systems Engr.           | 3          | _____        | IME 475 Systems Simulation     | 3          | _____        |
|  |            | -            |                                |            | -            |
| IME 470 Production Planning &<br>Control | 3          | _____        | IME 481 Senior Design          | 2          | _____        |
|  |            | -            |                                |            | -            |
| IME 480 Engr. Design (Writing)           | 3          | _____        | PHL 215 Engr. Ethics (Writing) | 3          | _____        |
|  |            | -            |                                |            | -            |
| Tech.<br>Elective_____                   | 3          | _____        | Tech<br>Elective_____          | 3          | _____        |
|  |            | -            |                                |            | -            |
| Gen Ed<br>Elective_____                  | 3          | _____        | Gen Ed<br>Elective_____        | 3          | _____        |
|  |            | -            |                                |            | -            |
|  |            | -            | Gen Ed<br>Elective_____        | 3          | _____        |
|  |            | -            |                                |            | -            |

\*Not required for transfer students.

#See Co-op Coordinator with questions about ESC 300.

\*\*Required for all Industrial Engineering students.

\*\*\*Required for freshman and transfer students admitted to Engineering College Fall 2003 and after.

Minimum number of credits required for degree: 129 (128 excluding ESC 100, New Student Orientation)