

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

## COMPUTER ENGINEERING Curriculum Sheet Revised 10-29-07

| <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 Laboratory I       | 1                 | _____               | CIS 260 Introduction to Programming                   | 4                 | _____               |
| ESC 100 New Student Orientation*             | 1                 | _____               | CSC 121 Career Orientation**                          | 1                 | _____               |
| ESC 120 Introduction to Engr. Design***      | 2                 | _____               |   |                   |                     |
|  |                   |                     |   |                   |                     |
| <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                 | _____               | EEC 311 Electric Circuits II                          | 4                 | _____               |
| PHY 244 Univ. Physics II (Writing)           | 5                 | _____               | EEC 313 Electronics I                                 | 4                 | _____               |
| ESC 250 Differential Equations for Engineers | 3                 | _____               | CIS 334 Fundamentals of Microcomputer<br>Architecture | 2                 | _____               |
| EEC 310 Electric Circuits I                  | 4                 | _____               | CIS 340 C/C++ for Systems Programming                 | 2                 | _____               |
| CIS 265 Data Structures and Algorithms       | 4                 | _____               | ESC 310 Engineering Statistics & Probability          | 3                 | _____               |
|  |                   |                     | Gen Ed Elective _____                                 | 3                 | _____               |
|  |                   |                     |   |                   |                     |
| <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> |
| EEC 316 Electronic Devices Lab               | 1                 | _____               | EEC 483 Computer Organization                         | 4                 | _____               |
| EEC 382 Digital Systems                      | 4                 | _____               | ESC 282 Engineering Economy                           | 3                 | _____               |
| CIS 345 Architecture & OS                    | 4                 | _____               | ESC _____ Engineering Science Elective                | 3                 | _____               |
| MTH 220 Discrete Mathematics                 | 4                 | _____               | PHL 215 Engineering Ethics (Writing)                  | 3                 | _____               |
| Gen Ed Elective _____                        | 3                 | _____               | Gen Ed<br>Elective _____                              | 3                 | _____               |
| Gen Ed Elective _____                        | 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> |
| EEC 480 Modern Digital Design                | 4                 | _____               | EEC 482 Computer Engineering Lab                      | 2                 | _____               |
| EEC 481 Digital Systems Lab II               | 2                 | _____               | EEC 490 Senior Design                                 | 4                 | _____               |
| EEC 484 Computer Networks                    | 4                 | _____               | EEC Tech.<br>Elective _____                           | 4                 | _____               |
| EEC 485 High Performance Architectures       | 4                 | _____               | EEC Tech<br>Elective _____                            | 4                 | _____               |
| EEC Tech. Elective _____                     | 4                 | _____               | Gen Ed Elective _____                                 | 3                 | _____               |

\* Not required for transfer students

\*\*Optional course. Required for participation in co-op and internship programs.

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

Minimum number of credits required for degree (excluding orientation and co-op): 137

**SEE OTHER SIDE FOR COMPUTER ENGINEERING (Co-op)**

Name \_\_\_\_\_ Advisor \_\_\_\_\_

## COMPUTER ENGINEERING

### Co-op Curriculum Sheet

REVISED 12-10-08

| <u>Year 1</u> <u>Fall Semester</u>           | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u>                         | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u>                         |
|--|------------|--------------|--|------------|--------------|--|
| ESC 100 New Student Orient.*                 | 1          | _____        | ENG 102 English II                             | 3          | _____        | Work or School                                 |
| ENG 101 English I                            | 4          | _____        | MTH 182 Calculus II                            | 4          | _____        |  |
| MTH 181 Calculus I                           | 4          | _____        | PHY 243 Univ. Physics I                        | 5          | _____        |  |
| CHM 261 Gen. Chemistry I                     | 4          | _____        | (Writing)                                      | 4          | _____        |  |
| CHM 266 General Chem. Lab I                  | 1          | _____        | CIS 260 Intro. Programming                     | 4          | _____        |  |
| Gen Ed Elective _____                        | 3          | _____        | CSC 121 Career Orientation**                   | 1          | _____        |  |
| ESC 120 Intro. to Engineering Design***      | 2          | _____        |  |            |              |  |
|  |            |              |  |            |              |  |
| <u>Year 2</u> <u>Fall Semester</u>           | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u>                         | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u> <u>Cr.</u> <u>Grade</u> |
| CIS 265 Data Structures/ Algor.              | 4          | _____        | EEC 311 Electric Circuits II                   | 4          | _____        | Co-op: _____                                   |
| MTH 284 Matrices for Engrs.                  | 2          | _____        | EEC 313 Electronics I                          | 4          | _____        | ESC 300                      1    _____        |
| PHY 244 Univ. Physics II                     | 5          | _____        | CIS 334 Fundamentals of                        | 2          | _____        |  |
| (Writing)                                    |            |              | Microcomputer Architecture                     |            |              |  |
| ESC 250 Differential Equations for Engineers | 3          | _____        | CIS 340 C/C++ for Systems                      | 2          | _____        |  |
| EEC 310 Electric Circuits I                  | 4          | _____        | Programming                                    | 3          | _____        |  |
|  |            |              | ESC 310 Engineering Statistics and Probability |            |              |  |
|  |            |              |  |            |              |  |
| <u>Year 3</u> <u>Fall Semester</u>           | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u>                         | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u> <u>Cr.</u> <u>Grade</u> |
| EEC 316 Electronic Devices Lab               | 1          | _____        | Co-op:   |            |              | ESC 282 Engr. Economy    3    _____            |
| EEC 382 Digital Systems                      | 4          | _____        | ESC 300  | 1          | _____        | Gen Ed Elective _____    3    _____            |
|  |            |              |  |            |              | Gen Ed Elective _____    3    _____            |
| MTH 220 Discrete Math                        | 4          | _____        |  |            |              |  |
| CIS 345 Architecture & OS                    | 4          | _____        |  |            |              |  |
| Gen Ed Elective _____                        | 3          | _____        |  |            |              |  |
|  |            |              |  |            |              |  |
| <u>Year 4</u> <u>Fall Semester</u>           | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u>                         | <u>Cr.</u> | <u>Grade</u> | <u>Summer Semester</u> <u>Cr.</u> <u>Grade</u> |
| Co-op: ESC 300                               | 1          | _____        | EEC 483 Computer Organ.                        | 4          | _____        | Co-op: ESC 300                      1    _____ |
|  |            |              | ESC _____ Engineering Science                  |            |              |  |
|  |            |              | Elective                                       | 3          | _____        |  |
|  |            |              | PHL 215 Engineering Ethics                     | 3          | _____        |  |
|  |            |              | (Writing)                                      | 3          | _____        |  |
|  |            |              | Gen Ed Elective _____                          |            |              |  |
|  |            |              |  |            |              |  |
| <u>Year 5</u> <u>Fall Semester</u>           | <u>Cr.</u> | <u>Grade</u> | <u>Spring Semester</u>                         | <u>Cr.</u> | <u>Grade</u> |  |
| EEC 480 Modern Digital Design                | 4          | _____        | EEC 482 Computer Engr. Lab                     | 2          | _____        |  |
| EEC 481 Digital Systems Lab II               | 2          | _____        | EEC 490 Senior Design                          | 4          | _____        |  |
| EEC 484 Computer Networks                    | 4          | _____        | EEC Tech Elective                              | 4          | _____        |  |
|  |            |              |  |            |              |  |
| EEC 485 High Performance Architectures       | 4          | _____        | EEC Tech Elective                              | 4          | _____        |  |
| EEC Tech Elective                            | 4          | _____        |  |            |              |  |

\*Not required for transfer students.  
 \*\* Required for participation in co-op and internship programs.  
 ck:semester regular curric.

\*\*\*Requirement for freshman and transfer students admitted to Engineering College Fall 2003 and after.  
Minimum number of credits required for degree (excluding orientation and co-op): 139.

**SEE OTHER SIDE FOR COMPUTER ENGINEERING (Non-Co-op)**