

Computer Engineering Four Year Academic Plan

Name: _____

UID: _____

| Year 1 | Fall | | |
|---|---------------|-----------|-------|
| Gateway requirements include: ENGL 101, CHEM 135, MATH 141, PHYS 161 and an approved Distributive Studies course. (Directly admitted freshman must successfully complete these courses and ENES 100 by 45 UM credits.) | Course | Credit | Grade |
| | CHEM 135 | 3 | |
| | ENES 100 (SP) | 3 | |
| | MATH 140 (AR) | 4 | |
| | CMSC 131 | 4 | |
| | ENGL 101 (AW) | 3 | |
| | Total | 17 | |

| Spring | | |
|----------------|-----------|-------|
| Course | Credit | Grade |
| CMSC 132 | 4 | |
| MATH 141 | 4 | |
| ENEE 244 | 3 | |
| PHYS 161 (NS) | 3 | |
| ORAL COMM (OC) | 3 | |
| Total | 17 | |

| Year 2 | Fall | | |
|--------|----------------------------|-----------|-------|
| | Course | Credit | Grade |
| | CMSC 216 | 4 | |
| | CMSC 250 | 4 | |
| | ENEE 200 | 3 | |
| | ENEE 245 | 2 | |
| | PHYS 260 and PHYS 261 (NL) | 3 & 1 | |
| | Total | 17 | |

| Spring | | |
|------------------|-----------|-------|
| Course | Credit | Grade |
| CMSC 330 | 3 | |
| ENEE 205 | 4 | |
| ENEE 222 | 4 | |
| MATH 246 | 3 | |
| Humanities (HU)* | 3 | |
| Total | 17 | |

| Year 3 | Fall | | |
|--------|------------------------------|-----------|-------|
| | Course | Credit | Grade |
| | CMSC 351 | 3 | |
| | ENEE 303 | 2 | |
| | ENEE 322 | 3 | |
| | ENEE 350 | 3 | |
| | Hist & Social Sciences (HS)* | 3 | |
| | Total | 14 | |

| Spring | | |
|------------------------------|-----------|-------|
| Course | Credit | Grade |
| ENEE 307 | 3 | |
| ENEE 324 | 3 | |
| ENEE 446 | 3 | |
| Comp Eng. Tech Elec. | 3 | |
| Hist & Social Sciences (HS)* | 3 | |
| Total | 15 | |

| Year 4 | Fall | | |
|--------|-------------------------------|-----------|-------|
| | Course | Credit | Grade |
| | CMSC 412 | 4 | |
| | Comp Eng. Tech Elec. | 3 | |
| | Comp Eng. Tech Elec. | 3 | |
| | Scholarship in Practice (SP)* | 3 | |
| | Humanities (HU)* | 3 | |
| | Total | 16 | |

| Spring | | |
|----------------------|-----------|-------|
| Course | Credit | Grade |
| Comp Eng. Tech Elec. | 3 | |
| Comp Eng. Tech Elec. | 3 | |
| Comp Eng. Tech Elec. | 3 | |
| Comp Eng. Tech Elec. | 4 | |
| ENGL 393 (PW) | 3 | |
| Total | 16 | |

*All students must complete two Distributive Studies courses that are approved for I-series courses. The Understanding Plural Societies and Cultural Competence courses may also fulfill Distributive Studies categories.

NAME: _____

COMPUTER ENGINEERING

UID: _____ A.A. ___ A.S.E. ___ Post-Bac

| GENERAL EDUCATION REQUIREMENTS | | | |
|---|----------|--|-------|
| Fundamental Studies | | | |
| Academic Writing (AW) | ENGL 101 | | 3 |
| Professional Writing (PW) | ENGL 393 | | 3 |
| Oral Communication (OC) | | | 3 |
| Distributive Studies | | | |
| History/Social Sciences (HS*) | | | 3 |
| History/Social Sciences (HS*) | | | 3 |
| Humanities (HU*) | | | 3 |
| Humanities (HU*) | | | 3 |
| Scholarship in Practice (SP*) | | | 3 |
| I-Series | | | |
| I-Series (IS*) | | | 0/3 |
| I-Series (IS*) | | | 0/3 |
| Diversity | | | |
| Understanding Plural Societies (UP*) | | | 0/3 |
| Understanding Plural Societies (UP*) OR Cultural Competency (CC*) | | | 0/3 |
| MAJOR REQUIREMENTS | | | |
| Basic Sciences | | | |
| CHEM 135 - Chem for Eng | | | 3 |
| PHYS 161 - General Physics I (NS) | | | 3 |
| PHYS 260 and 261 - Gen Physics II & Lab (NL) | | | 3 & 1 |
| MATH 140 - Calculus I (MA/AR) | | | 4 |
| MATH 141 - Calculus II | | | 4 |
| MATH 246 - Differential Equations | | | 3 |
| Engineering Sciences | | | |
| ENES 100 - Intro to Eng Design (SP) | | | 3 |

| MAJOR REQUIREMENTS | | |
|--|--|---|
| CMSC 131 – Object Oriented Programming II** | | 0 |
| CMSC 132 – Object Oriented Programming II | | 4 |
| CMSC 216 – Intro to Computer Systems | | 4 |
| CMSC 250 – Intro to Discrete Structures | | 4 |
| CMSC 330 – Organization of Progr Languages | | 3 |
| CMSC 351 – Algorithms | | 3 |
| CMSC 412 – Operating Systems | | 4 |
| ENEE 200 – Social/Ethical Issues of Eng. Tech. | | 3 |
| ENEE 205 – Electric Circuits | | 4 |
| ENEE 222 – Elements of Discrete Signals | | 4 |
| ENEE 244 – Digital Logic Design | | 3 |
| ENEE 245 – Digital Circuits & Systems Lab | | 2 |
| ENEE 303 – Analog & Digital Electronics | | 3 |
| ENEE 307 – Electronic Circuit Design Lab | | 2 |
| ENEE 322 – Signal & System Theory | | 3 |
| ENEE 324 – Eng Probability | | 3 |
| ENEE 350 – Computer Organization | | 3 |
| ENEE 446 – Digital Computer Design | | 3 |
| Computer Engineering Electives*** (22) credits required | | |
| Category A (min 6 crs; 3 crs at 300/400 lvl): | | 3 |
| Category A: | | 3 |
| Category B: | | 3 |
| Category C: | | 3 |
| Category D: | | 2 |
| Category E: | | 3 |
| Category F: | | 3 |
| Elective (Category A-F or Free Elective): | | 4 |

* May satisfy more than one requirement. See www.gened.umd.edu
 ** Students must successfully complete CMSC 131 or the CMSC 131 Exemption Exam prior to enrolling in CMSC 132.
 *** For a complete list of approved electives, please see: www.ece.umd.edu/home

| For Degree Clearance Only | |
|---------------------------|--------------------|
| Degree: B.S. COMP | Advisor: _____ |
| Date: _____ | GPA/Credits: _____ |

| Requirements for Graduation: |
|---|
| <input type="checkbox"/> Final 30 credits must be earned at UMD |
| <input type="checkbox"/> 15 of the final 30 credits must be earned at the 300-400 level |
| <input type="checkbox"/> 12 of the final 30 credits must be upper level major coursework |
| <input type="checkbox"/> A minimum 2.00 cumulative UM GPA and satisfactory completion of all degree requirements are required for graduation |
| <input type="checkbox"/> Students matriculating after Fall 2012 must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements |
| <i>(Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/ technical electives and ENGL 393)</i> |
| <input type="checkbox"/> A minimum of 120 credits are required to earn the degree |