

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 39X | 3 |
| Oral Communication (OC) | | 3 |
| Distributive Studies | | |
| History/Social Sciences (HS*) | | 3 |
| History/Social Sciences (HS*) | | 3 |
| Humanities (HU*) | | 3 |
| Scholarship in Practice (SP*) out of major | | 3 |
| I-Series | | |
| I-Series (IS*) | | 0/3 |
| Diversity | | |
| Understanding Plural Societies (UP*) | | 0/3 |
| Understanding Plural Societies (UP*) OR | | 0/3 |
| Cultural Competency (CC*) | | |
| MAJOR REQUIREMENTS | | |
| Basic Sciences | | |
| CHEM 135-Chem Engr or 131 & 134 -Fund & Prin | | 3/3&1 |
| 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 |

* 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: _____ | Credits/GPA: _____ |

| MAJOR REQUIREMENTS | | |
|--|--|---|
| CMSC 131 – Object Oriented Programming I** | | 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 or ENEE447– Operating Systems | | 4 |
| ENEE 101 - Intro to Electrical & Comp Engr | | 3 |
| ENEE 200 - Engineering Ethics (HU/IS) | | 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 or ENEE 322 | | 3 |
| ENEE 324 or STAT400 | | 3 |
| ENEE 350 – Computer Organization | | 3 |
| ENEE 446 – Digital Computer Design | | 3 |
| Computer Engineering Electives*** (26) credits required | | |
| Category A (min 6 crs; 3 crs at 300/400 lvl): | | 3 |
| Category A: | | 3 |
| Category B: | | 3 |
| Category C: | | 3 |
| Category C: | | 3 |
| Category D: | | 2 |
| Category E: | | 3 |
| Category F: | | 3 |
| Elective (Category A-F or Free Elective): | | 3 |

| 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 Professional Writing (PW))</i> | |
| <input type="checkbox"/> A minimum of 120 credits are required to earn the degree | |

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 | |
| | CMSC 131 | 4 | |
| | ENEE 101* | 3 | |
| | MATH 140 (AR/MA) | 4 | |
| | ENGL 101 (AW) | 3 | |
| | Total | 17 | |

| Spring | | |
|----------------|-----------|-------|
| Course | Credit | Grade |
| ENES 100 (SP)* | 3 | |
| CMSC 132 | 4 | |
| PHYS161 (NS) | 3 | |
| MATH 141 | 4 | |
| ORAL COMM (OC) | 3 | |
| Total | 17 | |

| Year 2 | Fall | | |
|--------|----------------------------|-----------|-------|
| | Course | Credit | Grade |
| | ENEE 244 | 3 | |
| | MATH 246 | 3 | |
| | PHYS 260 and PHYS 261 (NL) | 3 & 1 | |
| | CMSC 250 | 4 | |
| | Humanities (HU)** | 3 | |
| | Total | 17 | |

| Spring | | |
|---------------------------|-----------|-------|
| Course | Credit | Grade |
| ENEE 222 | 4 | |
| ENEE 205 | 4 | |
| CMSC 216 | 4 | |
| ENEE 245 | 2 | |
| HIST & SOC SCIENCE (HS)** | 3 | |
| Total | 17 | |

| Year 3 | Fall | | |
|--------|----------------------|-----------|-------|
| | Course | Credit | Grade |
| | ENEE 200 (HU/IS) | 3 | |
| | ENEE 303 or ENEE 322 | 3 | |
| | ENEE 350 | 3 | |
| | CMSC 330 | 3 | |
| | CpE Tech El: CAT A | 3 | |
| | Total | 15 | |

| Spring | | |
|-------------------------------|-----------|-------|
| Course | Credit | Grade |
| ENEE 324 or STAT400 | 3 | |
| ENEE 446 | 3 | |
| CMSC 351 | 3 | |
| CpE Tech El: CAT A | 3 | |
| Hist & Social Sciences (HS)** | 3 | |
| Total | 15 | |

| Year 4 | Fall | | |
|--------|----------------------------|-----------|-------|
| | Course | Credit | Grade |
| | CMSC4xx: CAT B | 3 | |
| | ENEE 4xx: CAT C | 3 | |
| | ENEE 4xx: CAT C | 3 | |
| | CpE Tech El: CAT F | 3 | |
| | Scholarship in Prac (SP)** | 3 | |
| | Total | 15 | |

| Spring | | |
|---------------------------|-----------|-------|
| Course | Credit | Grade |
| ENEE 4xx: CAT D | 2 | |
| CpE Tech El: CAT E | 3 | |
| CMSC 412 or ENEE 447 | 4 | |
| CpE Tech Elective | 3 | |
| Professional Writing (PW) | 3 | |
| Total | 15 | |

*ENEE101 and ENES100 cannot be taken in the same semester. Students may take these courses consecutively within their first year in the order of choice.

** All students must complete two distributive studies courses that are approved I-Series courses. The Understanding Plural Societies & Cultural Competence courses may also fulfill Distributive Studies categories.