

NAME: _____

CIVIL ENGINEERING

UID: _____ A.A. A.S. 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*) out of major | | | 3 |
| I-Series Courses (IS) | | | |
| 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 Engr or 131 & 134 -Fund & Prin | | | 3/3&1 |
| PHYS 161 - General Physics I (NS) | | | 3 or 4 |
| PHYS 260 and PHYS 261 - Gen Physics II & Lab (NL) | | | 3 & 1 |
| MATH 140 - Calculus I (MA/AR) | | | 4 |
| MATH 141 - Calculus II | | | 4 |
| MATH 241 - Calculus III | | | 4 |
| MATH 246 - Differential Equations | | | 3 |
| BSCI 160 or ENSP 101 or GEOL 100 | | | 3 |
| Engineering Sciences | | | |
| ENES 100 - Intro to Eng Design (SP) | | | 3 |
| ENES 102 - Mechanics I | | | 3 |
| ENES 220 - Mechanics II | | | 3 |
| ENES 221 - Dynamics** | | | 3 |
| Major Requirements | | | |
| ENCE 100 - Intro to Civil Eng | | | 1 |
| ENCE 200 - Civil Eng Computation | | | 3 |
| ENCE 201 - Eng Info Processing | | | 3 |
| ENCE 215 - Eng for Sustainability | | | 3 |
| ENCE 300 - Fund of Eng Materials | | | 3 |
| ENCE 302 - Probability & Stat for CEE | | | 3 |
| ENCE 305 - Fund of Eng Fluids | | | 3 |
| ENCE 360 - Analysis of Civil Eng Systems | | | 3 |

* May satisfy more than one requirement. See www.gened.umd.edu

** Required for Geotechnical/Structural Track Only.

*** See Civil Engineering Advisor for appropriate electives: www.civil.umd.edu

For Degree Clearance Only

Degree: B.S. ENCE

Advisor: _____

Date: _____

Credits/GPA: _____

| MAJOR REQUIREMENTS | | | |
|--|--|--|---|
| Environmental & Water Resources Track | | | |
| BIOE 120 - Biology for Engineers | | | 3 |
| ENCE 310 - Intro to Environ Eng | | | 3 |
| ENCE 411 - Environ Eng Science | | | 3 |
| ENCE 412 - Environ Eng Unit Operation | | | 3 |
| ENCE 422 - Proj Cost Acct. & Econ | | | 3 |
| ENCE 431 - Hydrologic Eng | | | 3 |
| ENCE 432 - Ground Water Hydrology | | | 3 |
| ENCE 466 - Design of Civil Eng Systems | | | 3 |
| ENCE Breadth Elective*** | | | 3 |
| ENCE Breadth Elective*** | | | 3 |
| ENCE Elective*** | | | 3 |
| ENCE Elective*** | | | 3 |
| Geotechnical/Structural Engineering Track | | | |
| ENCE 320 or ENCE 325 - Eng Project MGMT | | | 3 |
| ENCE 340 - Fund of Geotechnical Engr | | | 3 |
| ENCE 353 - Intro to Structural Analysis | | | 3 |
| ENCE 441 - Foundation Design | | | 3 |
| ENCE 444 - Exp Methods Geotech & Struct. Eng | | | 3 |
| ENCE 454 - Design Concrete Structures | | | 3 |
| ENCE 466 - Design of Civil Eng Systems | | | 3 |
| ENCE Breadth Elective*** | | | 3 |
| ENCE Breadth Elective*** | | | 3 |
| ENCE Elective*** | | | 3 |
| ENCE Elective*** | | | 3 |
| Transportation/Project Management Track | | | |
| ENCE 320 or ENCE 325 - Eng Project MGMT | | | 3 |
| ENCE 370 - Intro to Transpt Eng & Planning | | | 3 |
| ENCE 402 - Simulation & Design of Experiments | | | 3 |
| ENCE 422 - Proj Cost Accounting & Economics | | | 3 |
| ENCE 423 - Proj Planning, Scheduling & Control | | | 3 |
| ENCE 466 - Design of Civil Eng Systems | | | 3 |
| ENCE 470 - Highway Engineering | | | 3 |
| ENCE 472 - Transportation Eng | | | 3 |
| ENCE Breadth Elective*** | | | 3 |
| ENCE Breadth Elective*** | | | 3 |
| ENCE Elective*** | | | 3 |
| ENCE 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 (Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/technical electives and ENGL 393) | | | |
| <input type="checkbox"/> A minimum of 120 credits is required to earn the degree | | | |