### GENERAL EDUCATION REQUIREMENTS

#### Academic Writing (AW)
- ENGL 101
- ENGL 39X

#### Oral Communication (OC)
- ENGL 490

#### Mathematics (MA)
- MATH140

#### History/Social Sciences (HS*)
- History/Social Sciences (HS*)
- Humanities (HU*)

#### Humanities (HU*)
- ENES/ENEE 200

#### Natural Sciences No Lab (NS)
- PHYS 161

#### Natural Sciences w/Lab (NL)
- PHYS 260/261

#### Scholarship in Practice (SP*) in major
- ENES 100

#### Scholarship in Practice (SP*) out of major
- ENES 100

#### Big Question Courses
- Big Question (SCIS*)
  - ENES/ENEE 200
- Big Question (SCIS*)
  - ENES/ENEE 200

#### Diversity
- Understanding Plural Societies (UP*)
- Understanding Plural Societies (UP*) OR Cultural Competency (CC*)

### MAJOR REQUIREMENTS

#### Environmental & Water Resources Track
- ENCE 205 - Biology for Civil & Environ Eng
- ENCE 310 - Intro to Environ Eng
- ENCE 411 - Environ Eng Science
- ENCE 412 - Environ Eng Unit Operation
- ENCE 422 - Proj Cost Acct. & Econ
- ENCE 431 - Hydrologic Eng
- ENCE 432 - Ground Water Hydrology
- ENCE Breadth Elective**
- ENCE Breadth Elective**
- ENCE Elective**
- Tech Elective**

#### Geotechnical/Structural Engineering Track
- ENES 221 - Dynamics
- ENCE 320 - Eng Project Management or ENCE325
- ENCE 340 - Fund of Geotechnical Engnr
- ENCE 353 - Intro to Structural Analysis
- ENCE 441 - Foundation Design
- ENCE 444 – Exp Methods Geotech & Struct. Eng
- ENCE 454 - Design Concrete Structures
- ENCE Breadth Elective**
- ENCE Breadth Elective**
- ENCE Elective**
- Tech Elective**

#### Transportation/Project Management Track
- ENCE 320 - Eng Project Management or ENCE325
- ENCE 370 - Intro to Transprt Eng & Planning
- ENCE 402 - Simulation & Design of Experiments
- ENCE 422 - Proj Cost Accounting & Economics
- ENCE 423 - Proj Planning, Scheduling & Control
- ENCE 470 - Highway Engineering
- ENCE 472 - Transportation Eng
- ENCE Breadth Elective**
- ENCE Breadth Elective**
- ENCE Elective**
- Tech Elective**

#### Requirements for Graduation:
- Final 30 credits must be earned at UMD
- 15 of the final 30 credits must be earned at the 300-400 level
- 12 upper level major credits must be earned at UMD
- A minimum 2.00 cumulative UM GPA, and satisfactory completion of all degree requirements, is required for graduation
- Students must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements
- A minimum of 120 credits is required to earn the degree

* May satisfy more than one requirement. See www.gened.umd.edu
** See Civil Engineering Advisor for appropriate electives: www.civil.umd.edu

Updated Fall 2024