**Year 2024–2025**

**Total Credit Hours: 137 credit hours**

**First Year: First Semester (Total: 18 credit hours)**

* MATH 101 – Calculus I (4 credit hours)  
  Prerequisite: MATH 002
* PHYS 101 – General Physics I (4 credit hours)  
  Prerequisite: MATH 002  
  Co-requisite: MATH 101
* CHEM 101 – General Chemistry (4 credit hours)  
  Prerequisite: none
* ENGL 101 – First Year Composition (3 credit hours)  
  Prerequisite: ENGL 005
* GHAL xxx – Humanities, Arts and Languages Elective (3 credit hours)  
  Prerequisite: none

**First Year: Second Semester (Total: 18 credit hours)**

* MATH 102 – Calculus II (4 credit hours)  
  Prerequisite: MATH 101
* PHYS 102 – General Physics II (4 credit hours)  
  Prerequisite: PHYS 101
* ENGL 102 – Introduction to Report Writing (3 credit hours)  
  Prerequisite: ENGL 101
* CS 141 – Introduction to Computing for Engineers (3 credit hours)  
  Prerequisite: none
* ENGG 103 – Introduction to Engineering Drawing (1 credit hour)  
  Prerequisite: none
* GDMC xxx – Diversity and Multiculturalism Elective (3 credit hours)  
  Prerequisite: none

**Second Year: First Semester (Total: 17 credit hours)**

* MATH 201 – Differential Equations (3 credit hours)  
  Prerequisite: MATH 102
* CE 201 – Statics (3 credit hours)  
  Prerequisite: PHYS 101
* CE 203 – Computer Graphics (2 credit hours)  
  Prerequisite: ENGG 103
* ME 201 – Thermodynamics (3 credit hours)  
  Prerequisite: PHYS 102, MATH 102
* ENGL 201 – Technical Writing (3 credit hours)  
  Prerequisite: ENGL 102
* GIAS 101 – Islamic Culture (3 credit hours)  
  Prerequisite: none

**Second Year: Second Semester (Total: 17 credit hours)**

* MATH 202 – Calculus III (3 credit hours)  
  Prerequisite: MATH 102
* GEO 144 – Geology (3 credit hours)  
  Prerequisite: none
* CE 202 – Dynamics (3 credit hours)  
  Prerequisite: CE 201
* CE 212 – Strength of Materials (3 credit hours)  
  Prerequisite: ENGG 203 or CE 201
* CE 262 – Surveying (2 credit hours)  
  Prerequisite: MATH 102
* GIAS 102 – Arabic Language Skills (3 credit hours)  
  Prerequisite: none

**Summer Field Experience I (Optional)**

* CE 294 – Summer Field Experience I (1 credit hour)  
  Prerequisite: none

**Third Year: First Semester (Total: 18 credit hours)**

* STAT 342 – Statistical Methods for Engineers (3 credit hours)  
  Prerequisite: MATH 102
* MATH 303 – Numerical Methods (3 credit hours)  
  Prerequisite: MATH 201
* CE 301 – Civil Engineering Materials (3 credit hours)  
  Prerequisite: CE 212
* CE 303 – Fluid Mechanics (3 credit hours)  
  Prerequisite: CE 202, ME 201
* CE 311 – Structural Analysis (3 credit hours)  
  Prerequisite: CE 212
* GSOS xxx – Social Sciences Elective (3 credit hours)  
  Prerequisite: none

**Third Year: Second Semester (Total: 18 credit hours)**

* CE 312 – Reinforced Concrete Design (3 credit hours)  
  Prerequisite: CE 311
* CE 332 – Soil Mechanics (4 credit hours)  
  Prerequisite: CE 212
* CE 342 – Water Resources Engineering (4 credit hours)  
  Prerequisite: CE 303
* CE 362 – Transportation Engineering (3 credit hours)  
  Prerequisite: CE 262
* CE 372 – Introduction to Engineering Design (1 credit hour)  
  Prerequisite: none
* GIAS xxx – Islamic Studies Elective (3 credit hours)  
  Prerequisite: none

**Summer Field Experience II**

* CE 394 – Summer Field Experience II (1 credit hour)  
  Prerequisite: none

**Fourth Year: First Semester (Total: 16 credit hours)**

* CE 411 – Foundation Design (3 credit hours)  
  Prerequisite: CE 332
* CE 413 – Steel Design (3 credit hours)  
  Prerequisite: CE 311
* ENGG 404 – Engineering Economy (2 credit hours)  
  Prerequisite: none
* CE 451 – Environmental Engineering (3 credit hours)  
  Prerequisite: CHEM 101
* CE 491 – Capstone Project I (1 credit hour)  
  Prerequisite: Senior Status ≥ 98
* CE 4xx – Professional Elective I (3 credit hours)  
  Prerequisite: none
* CE 4xx – Professional Elective II (1 credit hour)  
  Prerequisite: none

**Fourth Year: Second Semester (Total: 14 credit hours)**

* ENGG 404 – Engineering Economy (2 credit hours)  
  Prerequisite: none
* CE 472 – Construction Engineering & Management (3 credit hours)  
  Prerequisite: none
* CE 492 – Capstone Project II (3 credit hours)  
  Prerequisite: CE 491
* CE 4xx – Professional Elective III (3 credit hours)  
  Prerequisite: none
* XXXX xxx – Free Elective (3 credit hours)  
  Prerequisite: none