Freshman Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CHM 101 | General Chemistry Lec I (A1) | 3 |  |
| CHM 102 | General Chem I Lab | 1 |  |
| EGR 105 | Foundations of Engineering I (A4) | 1 |  |
| MTH 141 | Calculus I (A1, B3) | 4 |  |
| PHY 203 | Elementary Physics I (A1) | 3 |  |
| PHY 273 | Elementary Physics Lab I (A1) | 1 |  |
|  | General Education Outcome(s)* | 3 |  |

Freshman Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| ECN 201 | Principles of Microeconomics (A2) | 3 |  |
| EGR 106 | Foundations of Engineering II (A4) | 2 |  |
| MTH 142 | Calculus II (B3) | 4 |  |
| OCE 101 | Intro to Ocean Engineering | 1 |  |
| PHY 204 | Elementary Physics II (A1) | 3 |  |
| PHY 274 | Elementary Physics Lab II (A1) | 1 |  |
|  | General Education Outcome(s)* | 3 |  |

Sophomore Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| MCE 262 | Statics | 3 |  |
| MTH 243 | Calculus for Functions of Several Vars (A1, B3) | 3 |  |
| OCE 205 | Ocean Engineering Design Tools | 4 |  |
| PHY 205 | Elementary Physics III Lec (A1, B3) | 3 |  |
| PHY 275 | Elementary Physics III Lab (A1, B3) | 1 |  |

Sophomore Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CVE 220 | Mechanics of Materials | 3 |  |
| MCE 263 | Dynamics | 3 |  |
| MTH 244 | Differential Equations | 3 |  |
| OCE 206 | Ocean Instrumentation | 4 |  |
|  | General Education Outcome(s) $^{*}$ | 3 |  |

Junior Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| MCE 354 | Fluid Mechanics | 3 |  |
| OCE 301 | Fundamentals of Ocean Mechanics | 4 |  |
| OCE 310 | Basic Ocean Measurement | 3 |  |
|  | Professional Elective** | 3 |  |
|  | General Education Outcome(s) $^{*}$ | 3 |  |

Junior Year Spring Semester

| Course Code | Description | $\mathbf{C r}$ |  |
| :---: | :--- | :---: | :---: |
| OCE 311 | Coastal Measurements and Applications | 4 |  |
| OCE 408 | Intro to Engineering Wave Mechanics <br> and Littoral Processes | 4 |  |
| OCE 471 | Underwater Acoustics | 4 |  |
|  | Professional Elective ${ }^{* *}$ | 3 |  |
|  | General Education Outcome(s) |  | 3 |

Senior Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CHE 333 | Engineering Materials | 3 |  |
| OCE 416 | OCE Professional Practice | 2 |  |
| OCE 421 | Marine Structure Design | 3 |  |
| OCE 495 | Ocean Systems Design Project $\\|^{* * *}$ | 3 |  |
|  | Professional Elective** | 3 |  |

Senior Year Spring Semester

| Course Code | Description | $\mathbf{C r}$ |  |
| :---: | :--- | :---: | :---: |
| OCE 496 | Ocean Systems Design Project II (B2, D1) $)^{* * *}$ | 3 |  |
| OCG 451 | Oceanographic Science | 3 |  |
|  | Professional Elective ${ }^{* *}$ | 3 |  |
|  | Professional Elective** | 3 |  |
|  | General Education Outcome(s) $^{*}$ | 3 |  |

*General Education Outcomes: if all Outcomes are satisfied in fewer spaces than provided, you must take a course of your choice (Free Elective) to fill each remaining space in order to meet the required earned credit total of your degree plan. See the "General Education Outcomes" section at the bottom of page two for more information on satisfying these requirements.
**Professional Electives: Any 300-, 400-, or 500-level courses in engineering, MTH, PHY, or OCG. A minimum of two (2) professional electives must be in OCE.
***OCE 495 and OCE 496: An approved off-campus experience, usually between the junior and senior years, can be substituted for OCE 495 and 496 .

SPECIFIED MATHEMATICS, SCIENCE, AND ENGINEERING COURSES

| SPECIFIED MATHEMATICS, SCIENCE, AND ENGINEERING COURSES |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INTRODUCTORY ENGINEERING |  |  |  |  |  | ENGINEERING SCIENCE AND DESIGN |  |  |  |  |  |
| Sem | Course | Cr | Grade | QP | Note | Sem | Course | Cr | Grade | QP | Note |
|  | EGR 105 (A4) | 1 |  |  |  |  | CHE 333 | 3 |  |  |  |
|  | EGR 106 (A4) | 2 |  |  |  |  | CVE 220 | 3 |  |  |  |
|  |  | 3 |  |  |  |  | MCE 262 | 3 |  |  |  |
| MATHEMATICS |  |  |  |  |  |  | MCE 263 | 3 |  |  |  |
|  | MTH 141 (A1 \& B3) | 4 |  |  |  |  | MCE 354 | 3 |  |  |  |
|  | MTH 142 (B3) | 4 |  |  |  |  | OCE 101 | 1 |  |  |  |
|  | MTH 243 (A1 \& B3) | 3 |  |  |  |  | OCE 205 | 4 |  |  |  |
|  | MTH 244 | 3 |  |  |  |  | OCE 206 | 4 |  |  |  |
|  |  | 14 |  |  |  |  | OCE 301 | 4 |  |  |  |
| NATURAL SCIENCES |  |  |  |  |  |  | OCE 310 | 3 |  |  |  |
|  | CHM 101 (A1) | 3 |  |  |  |  | OCE 311 | 4 |  |  |  |
|  | CHM 102 | 1 |  |  |  |  | OCE 408 | 4 |  |  |  |
|  | PHY 203 (A1) | 3 |  |  |  |  | OCE 416 | 2 |  |  |  |
|  | PHY 273 (A1) | 1 |  |  |  |  | OCE 421 | 3 |  |  |  |
|  | PHY 204 (A1) | 3 |  |  |  |  | OCE 471 | 4 |  |  |  |
|  | PHY 274 (A1) | 1 |  |  |  |  | OCE 495*** [capstone] | 3 |  |  |  |
|  | PHY 205 (A1 \& B3) | 3 |  |  |  |  | OCE 496*** [capstone] (B2 \& D1) | 3 |  |  |  |
|  | PHY 275 (A1 \& B3) | 1 |  |  |  |  |  | 54 |  |  |  |
|  |  |  |  |  |  | **PROFESSIONAL ELECTIVES |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 3 |  |  |  |
|  |  |  |  |  |  |  |  | 3 |  |  |  |
|  |  |  |  |  |  |  |  | 3 |  |  |  |
|  |  | 16 |  |  |  |  |  | 3 |  |  |  |
| OCEANOGRAPHY |  |  |  |  |  |  |  | 3 |  |  |  |
|  | OCG 451 | 3 |  |  |  |  |  | 15 |  |  |  |
| *GENERAL EDUCATION OUTCOMES |  |  |  |  |  |  |  |  |  |  |  |
| Sem | Course | Cr | Grade | QP | Note | Sem | Course | Cr | Grade | QP | Note |

Science, Technology, Engineering, and Math (STEM) (A1)

| Sem | Course | Cr | Grade | QP | Note |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Civic Knowledge \& Responsibilities (C1) |  |  |  |  |  |
|  |  |  |  |  |  |
| Global Responsibilities (C2) |  |  |  |  |  |
|  |  |  |  |  |  |
| Diversity \& Inclusion (C3) |  |  |  |  |  |
|  |  |  |  |  |  |
| Ability to Synthesize (D1) |  |  |  |  |  |
|  | (see above) | 3 |  |  |  |
| Grand Challenge (at least one course must be coded with a "G") |  |  |  |  |  |
|  |  |  |  |  |  |
| Free Elective |  |  |  |  |  |
| If you fulfill all Outcomes in fewer spaces than indicated on page one, you must use those |  |  |  |  |  |
| ${ }^{\text {additional spaces to take course(s) of your choice to reach your degree credit total (126) }}$ |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

* General Education Outcomes: at least 40 credits must be completed. (A1-D1) must be met by at least three credits. A single course may satisfy one or two outcomes, and at least one course must be a "Grand Challenge". No more than twelve credits can be from the same course code except HPR. General education courses may also be used to meet requirements of your major(s) or minor(s) when appropriate.
** Professional Electives: Any 300-, 400-, or 500-level courses in engineering, MTH, PHY, or OCG. A minimum of two (2) electives must be in OCE.
*** OCE 495 and OCE 496: An approved off-campus experience, usually between the junior and senior years, can be substituted for OCE 495 and 496.

