Freshman Year Fall Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| CHM 101 | General Chemistry Lec I (A1) | 3 |  |
| CHM 102 | General Chemistry I Lab | 1 |  |
| EGR 105 | Foundations of Engineering I (A4) | 1 |  |
| MTH 141 | Intro Calculus with Analytical Geometry (A1, B3) | 4 |  |
| PHY 203 | Elementary Physics I (A1) | 3 |  |
| PHY 273 | Elementary Physics I Lab (A1) | 1 |  |
| ITL XXX |  | 3 |  |

Sophomore Year Fall Semester

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

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 |  |
|  | Approved Professional Elective** | 3 |  |
|  | General Education Outcome(s)* | 3 |  |
| ITL XXX |  | 3 |  |

Semester Abroad

| Course Code | Description | Cr |  |  |
| :--- | :--- | :---: | :---: | :---: |
|  | Engineering Professional Elective | 3 |  |  |
|  | General Education Outcome(s)* | 3 |  |  |
|  | General Education Outcome(s)* | 3 |  |  |
|  | General Education Outcome(s)* | 3 |  |  |
| ITL 3XX/4XX |  | 3 |  |  |
|  |  | $\mathbf{1 5}$ |  |  |
|  |  |  |  |  |

Senior Year Fall Semester


Freshman Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| ECN 201 | Principles of Microeconomics | 3 |  |
| EGR 106 | Foundations of Engineering II (A4) | 2 |  |
| MTH 142 | Intermed Calc with Analytic Geom (B3) | 4 |  |
| OCE 101 | Intro to Ocean Engineering | 1 |  |
| PHY 204 | Elementary Physics II (A1) | 3 |  |
| PHY 274 | Elementary Physics Lab II (A1) | 1 |  |
| ITL XXX |  | 3 |  |

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 Elective Outcome(s)* | 3 |  |
| ITL XXX |  | 3 |  |

Junior Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| OCE 311 | Coastal Measurements and Applications | 4 |  |
| OCE 408 | lntro to Engineering Wave Mechanics and <br> Littoral Processes | 4 |  |
| OCE 471 | Underwater Acoustics | 4 |  |
|  | General Elective Outcome(s)* | 3 |  |
| ITL XXX |  | 3 |  |
|  |  |  |  |

International Internship Semester

| Course Code | Description | Cr |  |
| :--- | :--- | :---: | :---: |
| ITL316-317 | Language Study Abroad | $3-6$ |  |
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|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Senior Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| OCE 496 | Ocean Systems Design Project II** | 3 |  |
| OCG 451 | Oceanographic Science | 3 |  |
|  | Approved Professional Elective** | 3 |  |
|  | Approved Professional Elective** | 3 |  |
|  | General Education Outcome(s)* | 3 |  |
| ITL 4XX |  | 3 |  |

Specified Math, Science, and Engineering Courses

| Introductory Engineering |  |  |  |  |  | Engineering Science and Design (Major) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sem | Course | Cr | Grade | QP | Note | Sem | Course | Cr | Grade | QP | Note |
|  | EGR 105 (A4) | 1 |  |  |  |  | СНЕ 333 | 3 |  |  |  |
|  | EGR 106 (A4) | 2 |  |  |  |  | CVE 220 | 3 |  |  |  |
|  |  | 3 |  |  |  |  | MCE 262 | 3 |  |  |  |
|  |  |  |  |  |  |  | MCE 263 | 3 |  |  |  |
| Mathematics |  |  |  |  |  |  | MCE 354 | 3 |  |  |  |
|  |  |  |  |  |  |  | OCE 101 | 1 |  |  |  |
|  | MTH 141 (A1 \& B3) | 4 |  |  |  |  | OCE 205 | 4 |  |  |  |
|  | MTH 142 (B3) | 4 |  |  |  |  | OCE 206 | 4 |  |  |  |
|  | MTH 243 | 3 |  |  |  |  | OCE 301 | 4 |  |  |  |
|  | MTH 244 | 3 |  |  |  |  | OCE 310 | 3 |  |  |  |
|  |  | 14 |  |  |  |  | OCE 311 | 4 |  |  |  |
|  |  |  |  |  |  |  | OCE 408 | 4 |  |  |  |
| Natural Sciences |  |  |  |  |  |  | OCE 416 | 2 |  |  |  |
|  | CHM 101 (A1) | 3 |  |  |  |  | OCE 421 | 3 |  |  |  |
|  | CHM 102 | 1 |  |  |  |  | OCE 471 | 4 |  |  |  |
|  | PHY 203 (A1) | 3 |  |  |  |  | OCE 495*** [capstone] | 3 |  |  |  |
|  | PHY 273 (A1) | 1 |  |  |  |  | OCE 496*** [capstone] | 3 |  |  |  |
|  | PHY 204 (A1) | 3 |  |  |  |  |  | 54 |  |  |  |
|  | PHY 274 (A1) | 1 |  |  |  |  | **Professi | Ele | tive |  |  |
|  | PHY 205 (A1 \& B3) | 3 |  |  |  |  |  | 3 |  |  |  |
|  | PHY 275 (A1 \& B3) | 1 |  |  |  |  |  | 3 |  |  |  |
|  |  | 16 |  |  |  |  |  | 3 |  |  |  |
| Oceanography |  |  |  |  |  |  |  | 3 |  |  |  |
|  | OcG 451 | 3 |  |  |  |  |  | 3 |  |  |  |
|  |  |  |  |  |  |  |  | 15 |  |  |  |

*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 by 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 OCE 496.


