| Freshman Year Fall Semester |  |  |  |  |  |
| :---: | :--- | :---: | :---: | :---: | :---: |
| Course Code | Description | Cr |  |  |  |
| CHM 101 | General Chemistry I Lec [GE-N] | 3 |  |  |  |
| CHM 102 | General Chem I Lab | 1 |  |  |  |
| EGR 105 | Foundations of Engineering I | 1 |  |  |  |
| MTH 141 | Intro Calculus w/Analytic Geom [GE-MQ] | 4 |  |  |  |
| PHY 203 | Elementary Physics I Lect [GE-N] | 3 |  |  |  |
| PHY 273 | Elementary Physics I Lab [GE-N] | 1 |  |  |  |
|  | General Education Elective* | 3 |  |  |  |
|  |  | $\mathbf{1 6}$ |  |  |  |

Freshman Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| ECN 201 | Principles of Microeconomics [GE-S] | 3 |  |
| EGR 106 | Foundations of Engineering II | 2 |  |
| MTH 142 | Intermed Calc with Analytic Geom [GE-MQ] | 4 |  |
| OCE 101 | Intro to Ocean Engineering | 1 |  |
| PHY 204 | Elementary Physics II Lec [GE-N] | 3 |  |
| PHY 274 | Elementary Physics II Lab [GE-N] | 1 |  |
|  | General Education Elective* | 3 |  |
|  |  | $\mathbf{1 7}$ |  |

Sophomore Year Fall Semester

| Course Code | Description | $\mathbf{C r}$ |  |
| :---: | :--- | :---: | :---: |
| MCE 262 | Statics | 3 |  |
| MTH 243 | Calculus for Functions of Several Vars | 3 |  |
| OCE 205 | Ocean Engineering Design Tools | 4 |  |
| PHY 205 | Elementary Physics III Lec [GE-N] | 3 |  |
| PHY 275 | Elementary Physics III Lab [GE-N] | 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 |  |
|  | Free Elective | 3 |  |

Junior Year Fall Semester

| Course Code | Description | $\mathbf{C r}$ |  |
| :---: | :--- | :---: | :---: |
| MCE 354 | Fluid Mechanics | 3 |  |
| OCE 301 | Fundamentals of Ocean Mechanics | 4 |  |
| OCE 310 | Basic Ocean Measurement | 3 |  |
|  | Professional Elective** | 3 |  |
|  | General Education Elective* | $\mathbf{3}$ |  |
|  |  | $\mathbf{1 6}$ |  |

## Junior Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| OCE 408 | Intro to Engineering Wave Mechanics and <br> Littoral Processes | 4 |  |
| OCE 311 | Coastal Measurements and Applications | 4 |  |
| OCE 471 | Underwater Acoustics | 4 |  |
|  | General Education Elective* | 3 |  |
|  | Professional Elective** | 3 |  |

Senior Year Fall Semester

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

Senior Year Spring Semester

| Course Code | Description | Cr |  |
| :---: | :--- | :---: | :---: |
| OCE 496 | Ocean Systems Design Project II*** | 3 |  |
| OCG 451 | Oceanographic Science | 3 |  |
|  | Professional Elective** | 3 |  |
|  | Professional Elective** | 3 |  |
|  | General Education Elective* | 3 |  |
|  |  | $\mathbf{1 5}$ |  |

* Note the following specific requirements and restrictions for General Education [GE] electives:
-Refer to specific Ocean Engineering General Education course requirements (see 2018 OCE Check Sheet).
-[GE-ECw] Must take at least one (1) General Education course in writing [GE-ECw].
-[GE-ECw] Can only take one (1) of the following 100-level writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105 , WRT 106.
** Professional Electives: Any engineering, mathematics, physics, or oceanography courses at the 300-, 400-, or 500-level.
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 MATH, SCIENCE, AND ENGINEERING COURSES |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INTRODUCTORY ENGINEERING |  |  |  |  |  | ENGINEERING SCIENCE AND DESIGN |  |  |  |  |  |
| Sem | Course | Cr | Grade | QP | Note | Sem | Course | Cr | Grade | QP | Note |
|  | EGR 105 | 1 |  |  |  |  | CHE 333 | 3 |  |  |  |
|  | EGR 106 | 2 |  |  |  |  | CVE 220 | 3 |  |  |  |
|  |  | 3 |  |  |  |  | MCE 262 | 3 |  |  |  |
| MATHEMATICS |  |  |  |  |  |  | MCE 263 | 3 |  |  |  |
|  | MTH 141 [GE-MQ] | 4 |  |  |  |  | MCE 354 | 3 |  |  |  |
|  | MTH 142 [GE-MQ] | 4 |  |  |  |  | OCE 101 | 1 |  |  |  |
|  | MTH 243 | 3 |  |  |  |  | OCE 205 | 4 |  |  |  |
|  | MTH 244 | 3 |  |  |  |  | OCE 206 | 4 |  |  |  |
|  |  | 14 |  |  |  |  | OCE 301 | 4 |  |  |  |
| NATURAL SCIENCES |  |  |  |  |  |  | OCE 310 | 3 |  |  |  |
|  | CHM 101 [GE-N] | 3 |  |  |  |  | OCE 311 | 4 |  |  |  |
|  | CHM 102 | 1 |  |  |  |  | OCE 408 | 4 |  |  |  |
|  | PHY 203 [GE-N] | 3 |  |  |  |  | OCE 416 | 2 |  |  |  |
|  | PHY 273 [GE-N] | 1 |  |  |  |  | OCE 421 | 3 |  |  |  |
|  | PHY 204 [GE-N] | 3 |  |  |  |  | OCE 471 | 4 |  |  |  |
|  | PHY 274 [GE-N] | 1 |  |  |  |  | OCE 495* [capstone] | 3 |  |  |  |
|  | PHY 205 [GE-N] | 3 |  |  |  |  | OCE 496* [capstone] | 3 |  |  |  |
|  | PHY 275 [GE-N] | 1 |  |  |  |  |  | 54 |  |  |  |
|  |  |  |  |  |  | **PROFESSIONAL ELECTIVES |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 3 |  |  |  |
|  |  |  |  |  |  |  |  | 3 |  |  |  |
|  |  |  |  |  |  |  |  | 3 |  |  |  |
|  |  | 16 |  |  |  |  |  | 3 |  |  |  |
| OCEANOGRAPHY |  |  |  |  |  |  |  | 3 |  |  |  |
|  | OCG 451 | 3 |  |  |  |  |  | 15 |  |  |  |
| GENERAL EDUCATION [GE] COURSES |  |  |  |  |  |  |  |  |  |  |  |

BREADTH
At least one course in each of the Gen Ed Areas


DEPTH
At least one additional course in 3 different Gen Ed Areas
Remainder are taken in any Gen Ed Area/Areas

| Sem | Course | Cr | Grade | QP | Note |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Natural Sciences [GE-N] |  |  |  |  |  |
| --- | Satisfied by Required Courses | 12 | --- | --- | --- |
| Mathematical and Quantitative Reasoning [GE-MQ] |  |  |  |  |  |
|  | Satisfied by MTH 142 | 4 | --- | --- | --- |
| ***One additional course from: EC/ECw; A; FC; L; S |  |  |  |  |  |
|  | [GE-EC/ECw; A; FC; L; S] | 3 |  |  |  |
| Free Elective |  |  |  |  |  |
|  |  | 3 |  |  |  |
| Other Courses (not for degree credit) |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

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