Department of Marine and Environmental Systems
Ocean Engineering Undergraduate Flowchart

Student Name: ____________________ Advisor: ____________________
Email or Number: ____________________ Date: ____________________

Fall
- MTH1001 Calc. 1

Spring
- MTH1002 Calc. 2

Fall
- MTH2001 Calc. 3

Spring
- MTH2201 Diff. Eq.

Fall
- OCE3030 Fl. Mech.

Spring
- OCE3522 Waves Lab

Summer
- OCE4911/11/12/12 Marine Field Project

Fall
- OCE4525 Cst. Str.

Spring
- CVE4000 Ener. Econ.

Key
Course# Credits
Name  Prerequisite  Co-requisite

Total Credits Required: 135
Substitutions:

Notes:

1) **BUSB1301 Basic Ec.** Can be substitute with a **Social Science Elective** (see University Catalog)
2) Sophomore course **CSE elective** can be substituted by **OCE 2002 Computer Applications in Ocean Engineering I**
3) Junior OCN elective. **OCN 2602 Environmental Geology, OCN 2407 Meteorology and OCN 2801 Research Vessel Ops** are good choices for Ocean Engineers
4) OCE Restricted Electives in the senior year are to be design courses
   - Spring Term:
     - OCE 4522 Coastal Engineering Processes & Shoreline Design
     - OCE 4542 Ocean Engineering Systems Design
     - OCE 4563 Ports and Harbor Design, (Not regularly offered)
     - OCE 4572 Structural Design of Marine Vehicles
   - Fall term:
     - OCE 4531 Instrumentation Design and Analysis
     - OCE 4575 Design of High-Speed Small Craft
     - OCE 4576 Hydrodynamics in Ship Design
     - OCE 4515 Composite Design
5) Spring term OCE 4561 Fundamentals of Offshore Engineering can be substituted with an OCE Restricted Elective in special cases.
6) For students interested in Ocean Energy or Underwater vehicles they should take **OCE 4531 Instrument Design and Analysis** as their OCE Restricted Elective and **MAE 4316 Mechatronics** as their technical elective by the Fall of their Junior year.
7) For students interested in using composites in their Junior/Senior design projects, the **Composite Design (OCE4515)** course should be taken during the first semester of the Junior year.

Instead of Civilization 2 (HUM 2052) after Civilization 1 (HUM 2051), students can take:
   - HUM 2052 Civilization 2,
   - HUM 2212 British and American Literature 1, or
   - HUM 2331 American History : Pre-Columbian to the Civil War,

For spring, Melbourne campus students can also choose from:
   - HUM 2142 World Art History 2,
   - HUM 2213 British and American Literature 2, and
   - HUM 2332 American History : Reconstruction to the Present

All of these courses satisfy three credits toward the humanities core requirement.