

## Ocean Engineering 5 Year Plan of Study for ROTC Students

### First Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1035	General Chemistry	3	ENGE 1216	Foundations of Engineering	2
CHEM 1045	General Chemistry Lab	1	ENGL 1106	First-Year Writing	3
ENGE 1215	Foundations of Engineering	2	MATH 1226	Calculus of a Single Variable	4
ENGL 1105	First-Year Writing	3	PHYS 2305	Foundations of Physics	4
MATH 1225	Calculus of a Single Variable	4			
	ROTC	Varies		ROTC	Varies
Total Credit Hours		16 - 19	Total Credit Hours		16-19

### Second Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 2204	Intro to Ocean Engineering	3	AOE 2024	Thin Walled Structures	3
ESM 2214	Statics and Mech. of Matls.	3	AOE 2074	Computational Methods	2
MATH 2114	Multivariable Calculus	3	ESM 2304	Dynamics	3
MATH 2204	Intro to Linear Algebra	3	MATH 2214	Differential Equations	3
Area 6		1	ECON 2005	Principles of Economics	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13-16	Total Credit Hours		15-18

### Third Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 2054	Electronics for AOE Systems	3	AOE 3054	AOE Experimental Methods	3
AOE 3014	Fluid Dynamics for AOE	3	AOE 3224	Ocean Structures	3
Math 4564	Operational Methods Sys	3	AOE 3234	Ocean Vehicle Dynamics	3
AOE 3034	Dyn & Control	3	STAT 4705	Probability & Stat for Engineers	3
				Area 3	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 19	Total Credit Hours		15-19

### Fourth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 3214	Ocean Wave Mechanics	3	PHYS 2306	Fundamentals of PHYS	4
AOE	AOE Technical Elective	3	AOE 3264	Thermo. And Marine Propulsion	3
AOE	AOE Technical Elective	3	GEOS 3034	Oceanography	3
	Area 7	3		Area 2	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 18	Total Credit Hours		13-18

### Fifth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
AOE 4205	Experiments for OE Design I	1	AOE 4206	Experiments for OE Design II	1
AOE 4265	Ocean Vehicle Design I	3	AOE 4266	Ocean Vehicle Design II	3
AOE	AOE Technical Elective	3	AOE	AOE Technical Elective	3
AOE	AOE Technical Elective	3	AOE	Technical Elective	3
	Area 2	3			
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 15	Total Credit Hours		13-15