

# OCEAN ENGINEERING - Class of 2017

Total Credits = **126**

## 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	

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## 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	

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## Sophomore Year *Fall Semester*

Course Code	Description	Cr	
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	

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## 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	

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## 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 Elective*	3	

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## Junior Year *Spring Semester*

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

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## 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 I	3	
	Professional Elective**	3	

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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	
	Professional Elective**	3	
	Professional Elective**	3	
	General Education Elective*	3	

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\* Note the following *specific* requirements and restrictions for General Education [GE] electives:

-Refer to *specific* Ocean Engineering General Education *course requirements* (see 2017 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.

\*\* Approved engineering, mathematics, or oceanography courses at the 300, 400, or 500 level. *A minimum of two (2) professional electives must be in OCE.*

Name \_\_\_\_\_

ID # \_\_\_\_\_

**OCEAN ENGINEERING - Class of 2017**

**126 Credits**

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			
		<b>3</b>					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			
		<b>14</b>					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	3			
	PHY 205 [GE-N]	3					OCE 496	3			
	PHY 275 [GE-N]	1						<b>54</b>			
						*PROFESSIONAL ELECTIVES					
								3			
								3			
								3			
								3			
								3			
		<b>16</b>						<b>15</b>			
OCEANOGRAPHY											
	OCG 451	3									
GENERAL EDUCATION [GE] COURSES											
BREADTH At least one course in <i>each</i> of the Gen Ed Areas						DEPTH At least one additional course in <i>3 different</i> Gen Ed Areas Remainder are taken in <i>any</i> Gen Ed Area/Areas					
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
**English Communication-Writing [GE-ECw]						Natural Sciences [GE-N]					
	WRT	3				---	<i>Satisfied by Required Courses</i>	12	---	---	---
Mathematical and Quantitative Reasoning [GE-MQ]						Mathematical and Quantitative Reasoning [GE-MQ]					
	<i>Satisfied by MTH 141</i>	4	---	---	---		<i>Satisfied by MTH 142</i>	4	---	---	---
Fine Arts & Literature [GE-A]						**One additional course from: EC/ECw; A; FC; L; S					
		3					[GE-EC/ECw; A; FC; L; S]	3			
Foreign Language/Culture [GE-FC]						Free Elective					
		3						3			
Letters [GE-L]						Other Courses ( <i>not for degree credit</i> )					
		3									
Natural Sciences [GE-N]											
	<i>Satisfied by CHM 101</i>	3	---	---	---						
Social Sciences [GE-S]											
	ECN 201	3									

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\*\* Note the following *specific* requirements and restrictions for General Education [GE] electives:

-[GE-ECw] Requirement: *Must* take at least *one (1)* General Education course in *writing* [GE-ECw].

-[GE-ECw] Restriction: Can only take *one (1)* of the following **100-level** writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.