

OCEAN ENGINEERING - Class of 2016

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	
OCE 215	Ocean Engineering Design I	1	
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	3	
OCE 216	Ocean Engineering Design II	1	
	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	3	
	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 2016 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.*

OCEAN ENGINEERING - Class of 2016

126 Credits

SPECIFIED MATH, SCIENCES, 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	3			
		14					OCE 215	1			
NATURAL SCIENCES							OCE 216	1			
	CHM 101 [GE-N]	3					OCE 301	4			
	CHM 102	1					OCE 310	3			
	PHY 203 [GE-N]	3					OCE 311	4			
	PHY 273 [GE-N]	1					OCE 408	4			
	PHY 204 [GE-N]	3					OCE 416	2			
	PHY 274 [GE-N]	1					OCE 421	3			
	PHY 205 [GE-N]	3					OCE 471	3			
	PHY 275 [GE-N]	1					OCE 495	3			
							OCE 496	3			
								54			
OCEANOGRAPHY						*PROFESSIONAL ELECTIVES					
	OCG 451	3						3			
								3			
								3			
								3			
								3			
								3			
		16						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	Sem	Course	Cr	Grade	QP	Note
**English Communication-Writing [GE-ECw]						Natural Sciences [GE-N]					
	WRT	3				---	Satisfied by Required Courses	12	---	---	---
Mathematical and Quantitative Reasoning [GE-MQ]						Mathematical and Quantitative Reasoning [GE-MQ]					
	Satisfied by MTH 141	4	---	---	---		Satisfied by MTH 142	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 (not for degree credit)					
		3									
Natural Sciences [GE-N]											
	Satisfied by CHM 101	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.