

Table of Curriculum

□ Graduate Program

Classification	Subject No.	Code	Subject Name	Lecture:Lab.:Credit (assignment)	Semester	Remark	
Mandatory General Course	Mand-atory	CC010	11.010	Special Lecture on Leadership	1:0:0	Fall	
		CC020	11.020	Ethics and Safety I	1AU	Spring-Fall	
	Choose 1	CC500	11.500	Scientific Writing	3:0:3(4)	Spring-Fall	
		CC510	11.510	Introduction to Computer Application	2:3:3(10)	Spring-Fall	
		CC511	11.511	Probability and Statistics	2:3:3(6)	Spring-Fall	
		CC512	11.512	Introduction to Materials and Engineering	3:0:3(3)	Spring-Fall	
		CC513	11.513	Engineering Economy and Cost Analysis	3:0:3(6)	Fall	
		CC522	11.522	Introduction to Instruments	2:3:3(8)	Fall	
		CC530	11.530	Entrepreneurship and Business Strategies	3:0:3(6)	Fall	
		CC531	11.531	Patent Analysis and Invention Disclosure	3:0:3(6)	Spring-Fall	
CC532	11.532	Collaborative System Design and Engineering	4:0:4	Spring			
Elective Course	OSE503	67.503	Principles of Naval Architecture & Ocean Engineering I	3:1:3	Spring-Fall		
	OSE504	67.504	Engineering Mechanics in Ocean Systems	4:0:4	Spring		
	OSE521	67.521	Ocean environments and wave loads	3:0:3	Fall		
	OSE522	67.522	Introduction to Fluid-Structure Interactions	3:0:3	Fall		
	OSE523	67.523	Ocean Hydrodynamics	3:0:3	Spring		
	OSE530	67.530	Nonlinear analysis of solids and structures	3:0:3	Spring		
	OSE532	67.532	Finite Elements Analysis of Structures	3:0:3	Fall		
	OSE533	67.533	Floating Structures	3:0:3	Spring	*MAE538	
	OSE534	67.534	Optimal Design of Ocean Composite Structures	3:0:3	Spring	*MAE537	
	OSE540	67.540	Naval Ship Shock Analysis and Design	3:0:3	Fall		
	OSE541	67.541	Stochastic Theory of Structure System	3:0:3	Spring		
	OSE542	67.542	Dynamics of Offshore Structures	3:0:3	Spring		
	OSE550	67.550	Ocean Systems Engineering	3:0:3	Spring		
	OSE551	67.551	Reliability and Risk Analysis for Offshore Plants	3:0:3	Spring		
OSE552	67.552	Artificial Neural Network : Theory and Applications to Ocean Systems	3:0:3	Spring	*MAE564		

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Elective Course	OSE560	67.560	Marine Production Systems Engineering	3:0:3	Spring	
	OSE561	67.561	Ocean Systems Management	3:0:3	Spring	
	OSE570	67.570	Design and Production of Ocean Systems	3:0:3	Spring	
	OSE571	67.571	Offshore Plant Design	3:0:3	Fall	
	OSE572	67.572	Knowledge-Based Design System for Ocean System	3:1:3	Fall	*MAE547
	OSE573	67.573	Advanced Ocean Systems Design	3:0:3	Spring Fall	
	OSE580	67.580	Ocean Feature-Based Modeling	3:1:3	Spring	*MAE548
	OSE620	67.620	Ocean Wave Mechanics	3:0:3	Fall	*MAE621
	OSE621	67.621	Floating Body Dynamics	3:0:3	Spring	
	OSE630	67.630	Axiomatic Design of Composite Structures	3:0:3	Fall	*MAE638
	OSE631	67.631	Hydro-elasticity	3:0:3	Fall	*MAE637
	OSE640	67.640	Ocean Dynamic Positioning System	3:0:3	Spring	*MAE662
	OSE670	67.670	Product Lifecycle Management System for Ocean System	3:1:3	Spring	*MAE647
	OSE721	67.721	Ocean Fluid Mechanics Modeling	3:0:3	Spring	*MAE722
	OSE730	67.730	Design of Light Sandwich Structures	3:0:3	Spring	*MAE638
	OSE800	67.800	Special Topics in Ocean Systems Engineering	3:0:3	Spring, Fall	
	OSE801	67.801	Engineering System Identification	3:0:3	Spring	
OSE967	67.967	Career Planning for Ocean Engineering	0:3:1	Spring, Summer, Fall, Winter		
Research	OSE960	67.960	M.S. Thesis		Spring, Fall	
	OSE966	67.966	Ph.D. Thesis		Spring, Fall	
	OSE980	67.980	Seminar (M.S.)	1:0:1	Spring, Fall	
	OSE986	67.986	Seminar (Ph.D.)	1:0:1	Spring, Fall	

- ※ Note: 1) The “*”mark represents a course that can be substituted.
2) 500-level courses are admitted to the undergraduate program.