

**Course Prerequisites
Aerospace and Ocean
Engineering
Class of 2020**

Semester	Course	Pre(Co)requisite	Pre(Co)requisite For
1 st Yr Fall			
	CHEM 1035 Gen Chemistry I	Co: Math 1025 or 1225	Co: CHEM 1045
	CHEM 1045 Chemistry Lab I	Co: CHEM 1035	
	ENGE 1215 Engineering Exploration		ENGE 1215
	ENGL 1105 English I		ENGL 1106
	MATH 1225 Calculus I	Pre: Math Ready	MATH 1226, 2114, PHYS 2305
1 st Yr Spring			
	ENGE 1216 Explor of Engr Design	ENGE 1215	AOE 2074, 2104, 2204
	ENGL 1106 English II	ENGL 1105	
	MATH 1226 Calculus II	MATH 1225	MATH 2204, PHYS 2306
	PHYS 2305 Physics I	Co: MATH 2114, 1226 MATH 1225, MATH 1226	AOE 2104, 2204, PHYS 2306, Co: AOE 3094
2 nd Yr Fall			
	AOE/ESM 2074 Comp Methods	ENGE 1114 or 1216 or 1434	
	(AE) AOE 2104 Intro to Aerospace Engr	ENGE 1216, PHYS 2305, Co: ESM 2104 or 2114	AOE 3014, 4065, 4165
	(OE) AOE 2204 Intro to Ocean Engr	ENGE 1216, PHYS 2305 Co: MATH 2204	AOE 3014, 4265
	ESM 2114 Statics & Structures	Co: MATH 2204 or 2406H	AOE 2024, ESM 2304
	MATH 2204 Multivariable Calculus	MATH 1226	AOE 2024, ESM 2304, STAT 4705
	MATH 2114 Linear Algebra	MATH 1225(B) or 1226	ESM 2104, Co: MATH 1224
	AOE 2054: Electronics		AOE 3054
2 nd Yr Spring			
	ESM 2304 Dynamics	ESM 2114, MATH 2204, Co: MATH 2214	AOE 3014, 3034, 3154
	MATH 2214 Differential Equations	MATH 2114, 1226	AOE 3034, MATH 4564
	AOE 2024: Thin-Walled Structures	ESM 2114, MATH 2204 Co: MATH 2214	AOE 3214, 3224
	PHYS 2306 Physics II	MATH 1226, PHYS 2305	

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Course Prerequisites (continued)
Aerospace and Ocean Engineering

Semester	Course	Pre(Co)requisite	Pre(Co)requisite For
3 rd Yr Fall			
(AE)	AOE 4134 Astromechanics	ESM 2304	AOE 4165
	MATH 4564 Oper Methods for Engr	MATH 2214	
	AOE 3014: Fluid Dynamics	AOE 2104 or 2204, ESM 2304, MATH 2214	AOE 3164, 3264
	AOE 3034: System Dynamics	ESM 2304, MATH 2214	AOE 3134, 3144, 3054, 3234
(AE)	AOE 3124: Aerospace Structures	AOE 2024 or 3024	AOE 4065, 4165
(OE)	AOE 3214: Ocean Wave Mech	Co: AOE 3014, MATH 4564	AOE 3234, 4265
(OE)	AOE 3224: Ocean Structures	AOE 2024	AOE 4265
3 rd Yr Spring			
	AOE 3054 Exp. Methods	AOE 2054, 3014, 3034	AOE 4205, 4105, 4065, 4165
(AE)	AOE 3114 Aero Compressibility	AOE 3014, Co: 3164	AOE 4065, 4165
(AE)	AOE 3134 Air Vehicle Dynamics	AOE 3034	AOE 4065
(AE)	AOE 3144: Space Vehicle Dynamics	AOE 3034	AOE 4165
(AE)	AOE 3164: Aerodynamics & Prop	AOE 3014, Co: 3114	AOE 4065, 4165
(OE)	AOE 3234: Ocean Vehicle Dynamics	AOE 3014, 3034, 3214	AOE 4265
(OE)	AOE 3264: Thermo and Marine Prop	AOE 2204, 3014	AOE 4265
(OE)	GEOS 3034: Oceanography		
4 th Yr Fall			
(AE)	AOE 4105: Experiments Aero Design	AOE 3054, Co: 4065 or 4165	AOE 4106 Co: AOE 4065, 4165
(AE)	AOE 4065: Air Vehicle Design	AOE 2104, 3054, 3114, 3124, 3134, 3164 Co: 4105	AOE 4066
(AE)	AOE 4165: Space Vehicle Design	AOE 2104, 3054, 3114, 3124, 3144, 3154, 3164	AOE 4166
(OE)	AOE 4205: Experiments Ocean Design	AOE 3054 Co: 4265	AOE 4206 Co: AOE 4265
(OE)	AOE 4265: Ocean Vehicle Design	AOE 2204, 3214, 3224, 3234, 3264, Co: 4205	Co: AOE 4205
4 th Yr Spring			
(AE)	AOE 4206: Experiments Aero Design	AOE 4105 Co: AOE 44066, 4166	
(AE)	AOE 4066 Air Vehicle Design	AOE 4065 Co: AOE 4106	
(AE)	AOE 4166 Space Vehicle Design	AOE 4165 Co: AOE 4106	
(OE)	AOE 4266 Ocean Vehicle Design	AOE 4265 Co: AOE 4206	
(OE)	AOE 4206: Experiments Ocean Design	AOE 4205 Co: AOE 4266	