

Why Is The USNA ENM Major/Program Unique?

A top-ranked program, the **ENM** major is one of the smallest, most familial majors on the Yard, averaging 25 midshipmen per class-year. Featuring award-winning faculty, world-renowned facilities, and exciting elective courses, the **ENM** major sets the standard for engaging, relevant, hands-on design and research activity.

What Types Of Courses Are Required For The ENM Major/Program?

The **ENM** major is truly interdisciplinary in nature. The program features a variety of fundamental courses in ship design, resulting in a comprehensive understanding of hydrostatics, ship stability, resistance, propulsion, structural design, seakeeping, maneuvering, and marine engineering systems. Unique elective courses provide the opportunity to study autonomous vessel design, modern fabrication processes, submarine design, advanced marine vehicle design, project management, and engineering/marine economics. An honors track (**ENMH**) exists within the major, and all midshipmen are encouraged to pursue independent research and various summer internship opportunities.

		SOPHOMORE YEAR		JUNIOR YEAR		SENIOR YEAR	
		3/C FALL	3/C SPRING	2/C FALL	2/C SPRING	1/C FALL	1/C SPRING
FOUNDATIONAL ENGINEERING COURSES			SM212 DIFFERENTIAL EQUATIONS	EM316 THERMO-FLUID SCIENCES I	EM317 THERMO-FLUID SCIENCES II	MATH, SCIENCE, & ENGINEERING ELECTIVE COURSE	
	EN221 ENGINEERING MECHANICS WITH MARINE APPLICATIONS I	EN222 ENGINEERING MECHANICS WITH MARINE APPLICATIONS II	EN330 PROBABILITY & STATISTICS WITH OCEAN APPLICATIONS				
			EN380 NAVAL MATERIALS SCIENCE & ENGINEERING				
NAVAL ARCHITECTURE & MARINE ENGINEERING COURSES	EN247 PRINCIPLES OF NAVAL ARCHITECTURE & MARINE ENGINEERING	EN342 SHIP HYDROSTATICS & STABILITY	EN350 MARINE ENGINEERING SYSTEMS	EN353 RESISTANCE & PROPULSION	EN455 SEAKEEPING & MANEUVERING	ENM MAJOR ELECTIVE COURSE	
				EN358 SHIP STRUCTURES	EN471 SHIP DESIGN I CAPSTONE COURSE		
						EN476 SHIP DESIGN II CAPSTONE COURSE	

A Flexible Matrix With Numerous Opportunities For Elective Courses, Summer Internships, Foreign Language Studies, Independent Research, And Various Scholarship/Fellowship Programs ...