

**USNA Core Curriculum Map: Core Courses, MSCHE Outcomes, Attributes of a Graduate, and Core Curriculum Learning Outcomes**

Core Learning Outcomes: <a href="#">The Naval Academy's interdisciplinary core curriculum exists to develop technically competent midshipmen who can:</a>		Apply leadership skills	Reason morally and ethically	Apply principles of naval science and the profession of arms	Solve technical problems	Communicate effectively			Critically reason	Understand American heritage	Interpret past and current world events	Demonstrate intellectual curiosity
		USNA Attributes of a Graduate Strategic Plan 2030	Selfless / Inclusive / Resilient	Courageous /Honorable	Professional / Learned	Learned / Innovative	Articulate			Innovative	Learned / Adaptable / Inclusive	Adaptable / Inclusive
Middle States Outcomes (Std III.5.a-b) aligned with USNA Core Curriculum Learning Outcomes		Diverse Perspectives	Values & Ethics	Technological Competency	Technological Competency	Oral Communication	Written Communication	Visual Communication	Information Literacy	Diverse Perspectives	Diverse Perspectives	
					Scientific and Quantitative Reasoning				Critical Analysis & Reasoning	Values & Ethics	Cultural & Global Awareness	
4/C	HE111	Rhetoric and Intro to Literature I		*		I	I	*	I		*	*
	HE112	Rhetoric and Intro to Literature II		*		I	I	*	I		*	*
	HH104	American Naval History			I,R		I	*	I	I,R	I,R	I,R
	FP130	US Government and Constitutional Development		*			I	*		I	*	*
	NL110	Preparing to Lead	I,R	I	I	I	I	i	I,R			I,R
	NS101	Fundamentals of Seamanship	I		I		R					
	SCY110	Introduction to Cyber Security			I	I						
	SC111	Foundations of Chemistry I				I	I	I				
	SC112	Foundations of Chemistry II				I,R	R	R				
	SC151	Modern Chemistry				I	I	I				
	SM005	Precalculus				I		I				
	SM121/121A	Calculus I				I	I	I	I			I
	SM122/122X	Calculus II				I,R	I	R	R	R		I,R
3/C	NE203	Ethics and Moral Reasoning	I, R	I, R, N	I, R, N		I, R, N		I, R	I, R	I	R
	NN210	Basic Navigation	R		R		R					
	SM221/223/221X	Calculus III				I,R,N	R	R	R			I,R
	SM2XY	Math IV				I,R,N	R	R	I,R,N			I,R
	SP211/221	General Physics I				I	*	I	I			I
	SP212	General Physics II				I,R	*	I,R	I,R			I,R
2/C or 3/C	HH215	The Premodern World		N			N		N	N	N	I
	HH216	The West in the Modern World					N		N	R	R	I
2/C	EC310/EC312	Applications of Cyber Engineering				R,N			R,N			
	EM300	Principles of Propulsion				I,R,N						
	ES300	Naval Weapons Systems			I,R	R,N	R	R	R,N			
	ES360/410/412	Control Systems Laboratory			I,R	R,N		N	R,N			
	EE301/EE331	Electrical Fund./Elec Eng I				R,N			R,N			
	NL310	Leadership Theory and Applications	R, N	R, N	R, N		R, N	R, N	R, N	R, N		R, N
1/C	EA400/EN400/EN 401	Principles of Ship Performance or Engineering in the Littoral Zone or Introduction to Aeronautics			I (EA400) I,R (EN400) I,R (EN401)	R,N (EA400) R,N (EN400) R,N (EN401)	R (EA400) R (EN401)	R,N (EA400) R,N (EN400) R,N (EN401)	R (EA400) R (EN401)	R,N (EA400) R,N (EN400) R,N (EN401)		I (EA400) R (EN400) R (EN401)
	NL400	Law for the Junior Officer	R, N	R, N	R, N		R, N	R, N	R, N	R, N	R, N	R, N
	NS43X	Junior Officer Practicum			N			N	N			R

**Introduce: (I)** The course emphasizes the introduction of concepts or material relevant to the core curricular learning outcome; learning activities focus on basic knowledge and skills that support the learning outcome. It is not unusual for more than one course to introduce aspects of an outcome and create a foundation that may be built on in other core courses or within majors.

**Reinforce: (R)** The course emphasizes opportunities to strengthen and reinforce the development of the knowledge and skills that support the learning outcome. Foundational/basic knowledge of the outcome was previously introduced.

**Integrate: (N)** The course emphasizes opportunities for the student to integrate knowledge and skills previously introduced and reinforced, so that at the end of the course midshipmen are minimally ready to demonstrate the outcome as junior officer. This course provide opportunities to demonstrate achievement of the outcome in multiple contexts or at multiple levels of complexity.

**\*** The course supports the learning outcome (to some degree within all sections), but formal assessment of the outcome is not expected.