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Systems Engineering and Analysis Curriculum, Curriculum Structure (archived)

Monterey, California. Naval Postgraduate School

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Systems Engineering and Analysis Curriculum Naval Postgraduate School Monterey, California

Details of the SEA Curriculum Approach

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NPS built this curriculum to teach US Navy Unrestricted Line Officers how the Navy builds and fights large combat systems. There are [seven threads](#) interwoven in the curriculum. Each graduate completes all threads.

This curriculum reflects the cooperative best efforts of a wide range of stakeholders, each with the goal of providing line officers with a robust blend of technical and war-fighting education. This will be the best curriculum in the world for learning how to engineer, to manage, and to lead military transformation. Graduates will add value to the Navy at all levels of command through their mastery of core analytical skills and their understanding of combat systems.

The first two quarters are taught in **blocks**, so the preparation and technology material can be logically sequenced in a short amount of time. In particular, this helps students master the material in the preparation thread without being overwhelmed.

The curriculum map is shown below:

QTR 1	Math I for SEA	Physics I for SEA	Probability and Statistics for Systems Engineers	Topics in Strategic Analysis	Combat Technology III (C4I)	Information Systems, Operations, and Warfare	JMO I	Project Seminar
QTR 2	Math II for SEA	Physics II for SEA	Naval Tactical Analysis	Combat Simulation and Systems Modeling	Combat Technology I (Sensors)	Combat Technology II (Weapons)	JMO II	Project Seminar
QTR 3	Systems Engineering and Architecture	Combat Systems Engineering I	Joint Campaign Analysis	Naval Systems Analysis	Project Seminar	S&P	<u>Legend</u> Preparation Analysis Technology JPME Project Engineering Track Courses	
QTR 4	Human Systems Engineering	Combat Systems Engineering II	Systems Software Engineering	Project Management	Project Seminar			
QTR 5	Systems Test and Evaluation	Engineering Cost Analysis	Integrating Project	Integrating Project	Project Seminar	NSDM		
QTR 6	Systems Logistics Analysis	Integrating Project	Integrating Project	Integrating Project	Project Seminar			

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