

CURRENT EDUCATIONAL SKILL REQUIREMENTS
Joint Operational Logistics
Subspecialty 3212
Curriculum 361

EDUCATIONAL SKILL REQUIREMENTS FOR: Joint Operational Logistics/ 3212

1. Curriculum number: 361
2. Curriculum taught at NPS.
3. Students are Fully Funded or Partially Funded: Fully
4. Curriculum length in months: 27 months
5. APC required: 325
6. Educational Skill Requirements detailed:
 - a. The graduate will possess the mathematical and computer programming skills to support quantitative analysis [Basic].
 - b. The graduate will be well versed in probability and statistics and their application to Operations Research (OR) problems [Modeling Uncertainty].
 - c. The graduate will be able to formulate and solve a wide variety of optimization problems and also be conversant with the major uses of such models in DoD and the private sector [Optimization].
 - d. The graduate will be able to formulate and solve problems involving stochastic processes (processes with uncertainty over time) and be familiar with the major applications of such models [Stochastic Modeling].
 - e. The graduate will be able to construct and utilize Discrete Event and Monte Carlo simulations of combat and other processes, particularly logistics themed, which evolve in time and will be able to deal with statistical issues associated with the need for replication [Simulation].
 - f. The graduate will be familiar with US, Allied and potential enemy capabilities, and will be able to model and analyze joint military operations using OR techniques. The graduate will also be able to develop and evaluate new tactical

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and logistics concepts for the range of operations from humanitarian assistance/disaster relief to combat [Analysis of Military Operations].

g. The graduate will understand naval and joint logistics systems, joint planning systems, military and commercial transportation systems of all types, supply systems, maintenance, engineering, and health services and the use of analysis in all aspects of planning for the logistic support of joint forces [Joint Logistics].

h. The graduate will understand the principles and applications of systems analysis as a basis for making key decisions on force requirements, weapon systems, and other defense problems [Systems Analysis].

i. The graduate will have gained experience working in all aspects of an analytical study. Specifically and will demonstrate the ability to conduct independent analytical studies and proficiency in presenting the results both orally and in writing [Joint OL Practice].

j. The graduate will be prepared to transition from specialized technical duties to assignments that will require a broad understanding of national policy and strategy, resource allocation and management, and joint and combined operations. This ESR is fulfilled by completing the Naval War College Course sequence leading to Service Intermediate-level Professional Military Education (PME) and Joint PME Phase I credit. Navy students take the NWC course sequence; the sequence is open to other students as desired [Joint Military Operations, Strategy and Planning].