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IGPO Newest Course Offerings, Curriculum Changes, and Miscellaneous Information

Monterey, California. Naval Postgraduate School

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NEWEST COURSE OFFERINGS, CURRICULUM CHANGES, and MISCELLANEOUS INFORMATION

MISCELLANEOUS

CURRICULUM 460, Engineering Science, MASL P174233 - Candidates not having the required qualifications for direct entry to technical/engineering curricula may be eligible to enter this technical refresher quarter program where they will receive courses in math/calculus, physics and computer science. The refresher sequence is normally 12 weeks (one quarter) in length; however, there are occasions when a student may be assigned two quarters of refresher prior to entering a technical curriculum.

PhD ADMISSION REQUIREMENTS

NPS doctoral programs are available to officers of all U.S. services, civilian employees of the government, a limited number of DoD Contractors, and to individuals sponsored by selected allied nations. Applications may be submitted at any time. An individual applying for admission to a Ph.D. program must hold a bachelor's degree qualifying the student for graduate status in the department of his/her major study, or shall have completed an equivalent course of study. **International applications shall be submitted to the International Graduate Programs Office.** The application must include the following:

A completed application form. This form may be obtained online at <http://www.nps.edu/Academics/Admissions/Programs/Doctoral.html> or from the Admissions Office by emailing grad-ed@nps.edu. This form includes:

- Full name, title/rank, date of birth and SSN.
- Current mailing address, telephone and email.
- Department of the proposed major subject area.
- Description of current position and responsibilities.
- A brief outline (200 words or fewer) of specific areas of interest within the proposed major field of study.
- Identification of source of support for attendance at NPS.
- Certified copies of all undergraduate and graduate transcripts. However, transcripts from NPS are not necessary.
- Results of a Graduate Record Examination (GRE) General Test taken within the last five-years.
- Two letters of recommendation.

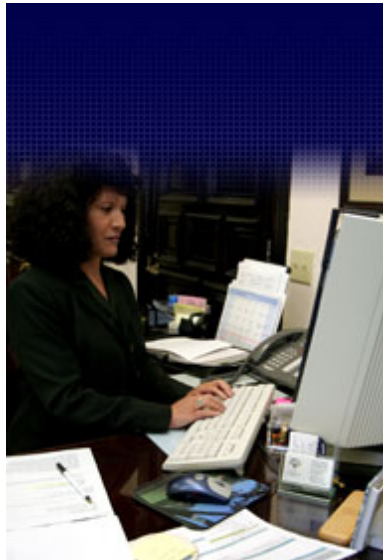
For international applicants not currently enrolled at NPS whose native language is other than English, or whose primary language of instruction was other than English, current results of the Test of English as a Foreign Language (TOEFL) and the Test of Written English are required. Minimum TOEFL Score required for direct entry to NPS is 220 for CBT (Computer Based Test), 83 IBT (Internet Based Test) or 560 (written test).

Attestation by the student's sponsoring agency or nation that they are committed to tuition and salary support during the student's residence at NPS.

NEWEST COURSE OFFERINGS

Command, Control, Communications, Computers, and Intelligence (C4I) Systems

Curriculum 365 – (MS)



Curriculum 309 – (MS)**MASL #: P179223****Course Start Date: June only****Course Length 104 weeks**

The C4I curriculum is designed to provide military officers and civilian equivalents a comprehensive operational and technical understanding of the field of C4I systems as applied to joint, combined, and coalition military operations at the national and unified command levels. The program is designed with the following goals: enable individuals to develop an understanding of the role C4I systems play in the use of military power and the ability to interpret the impact of C4I on operating philosophy; provide adequate background knowledge in basic technology, human capabilities, and joint, combined, and coalition military operations and how these factors are exploited in current C4I systems; and provide the framework whereby students can perform requirement and planning studies of new C4I systems and contribute to crisis management.

Course Title: Technologies for Information Operations**MASL#: P179220****Course Length: 3 weeks (20 April – 8 May, 2009)**

Course Description: A course tailored for mid to high level officers (Capt – LtCol) based on recent research and development in associated Information Operations technologies. The course is a technical workshop presented by various NPS faculty that covers several exciting technology areas important for tomorrow's war fighters. Examples of areas covered include: Concepts of information operations, quantum information systems, advanced networking constructs, information and decision making theory. Also included are principles of operational testing and experimentation of weapon systems, unmanned aerial vehicles and payloads. Advanced low probability of intercept radar waveforms and detection signal processing are also emphasized as well as rail gun technologies.

The course also includes a field trip to EDO/RSS (Reconnaissance and Surveillance Systems) to participate in a series of technical lectures on ELINT receivers and a tour of the manufacturing facility. The trip serves as an excellent opportunity for the exchange of information and technology among participants in a stimulating environment.

Quotas:

- 15 allocated to the Swedish National Defense College
10 worldwide on first come, first serve basis

Course Pre-requisites

1. Undergraduate engineering degree or equivalent
 - a. Calculus/calculus-based physics sequence required
2. ECL score of 85

Course tuition: Tuition cost will be determined based on number of student quotas filled (approximately \$6000 per student). IMET Living allowance (Based on BOQ cost of \$25 per day plus \$72 Per Diem) will be approximately \$2000.

Curriculum Title: OS3640 Framework for Countering Improvised Explosive Devices 2-0**MASL: P179268 (one course, one quarter)****Course length: 6 weeks, offered March/September quarter**

The course describes the use of improvised explosive devices in contemporary warfare with emphasis on how to organize to counter an IED campaign. The course begins with descriptions of various IED devices, why and how they are used, methods and technology to counter IEDs, the IED organization, how to organize to counter an IED campaign, and how to target organizations that control IED violence. A framework is developed to understand and address the many interlocking aspects of countering an IED campaign including: insurgency and civil war; recruiting, training, and financing of IED makers; data collection; geo-spatial analysis; crime forensics; intelligence; detainee interrogations; reconstruction; political and economic development; society and culture; information operations; training local police, security forces, and military personnel; reconciliation; and negotiations. The class will be taught in the accelerated mode with 4 hours per week for the first six weeks of the quarter. There will be extensive reading, weekly homework, and a short paper. Graded on Pass/Fail basis only. The class is open to

reading, weekly homework, and a short paper. Graded on a pass/fail basis only. The class is open to students from all NPS curricula.

PREREQUISITES: None

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