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NPS Distance Learning Curricula

Monterey, California. Naval Postgraduate School

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- [IGPO Home](#)
- [Introduction](#)
- [Admission](#)
- [International Student Statistics](#)
- [School of International Graduate Studies \(SIGS\)](#)
- [Calendar of Events](#)
- [Contact Us](#)

Home >> [Administration & Services](#) >> [IGPO](#) >> Newest Course Offerings

NPS DISTANCE LEARNING CURRICULA

The following courses are available through **Distance Learning**. Normal academic requirements, admissions procedures, and funding requirements apply. At the current time individual courses within degree or certificate programs are not available as stand alone options. Pricing will depend on the length of the program and number of courses taken. OCONUS MASL numbers are used when the course is taken out side of the geographical United States. RESIDENT MASL numbers are used when the program is taken in the continental United States, but not necessarily in Monterey at the Naval Postgraduate school.

EXECUTIVE MBA (EMBA), DEFENSE FOCUS

CURRICULUM 805

MASL #: P471212 (OCONUS); P170212 (RESIDENT)

Course Start: Spring and Fall Course

Length: 104 WEEKS

The Executive Master of Business Administration (EMBA), offered by the Graduate School of Business & Public Policy (GSBPP), is designed to provide Navy officers with the knowledge and skills needed to be successful in future resource management assignments. The program's Defense-focused courses educate officers to think analytically, to synthesize information from a wide range of sources, and ultimately to make quality strategic decisions under conditions of uncertainty. In short, the goal is to provide the Navy with senior leaders prepared to face the business challenges and make the resource allocation decisions critical to achieving the objectives of the Navy.

Students who are accepted into the EMBA program meet for classes once a week during duty hours in their local area. Officers enter as a "cohort", taking all classes together during the 24-months of instruction. The EMBA starts with a one-week introductory program at the NPS Monterey campus, including a two credit hour course in Managing Teams. Cohorts then return to their duty stations and the remainder of the courses are taught using a blended program of distance learning approaches, which allows the EMBA to be offered to virtually any command equipped with appropriate video teleconferencing facilities. Officers remain at their current duty stations and carry out their assigned duties, while taking two graduate courses during eight successive academic quarters. Additional information on the program can be found at www.nps.edu/Academics/GSBPP/EMBA/.

Quotas: Limited to 100 students per year

Course Pre-requisites: An entering student must possess an undergraduate degree with at least a 2.6 grade point average (245 APC).

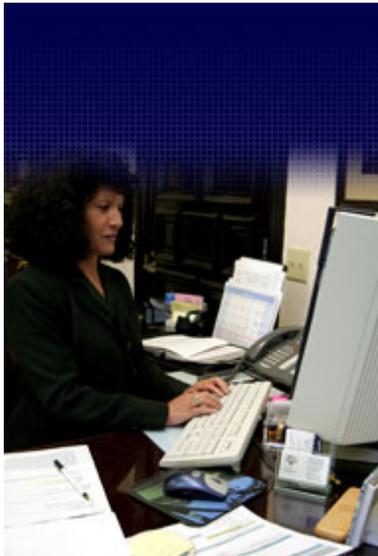
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SYSTEMS ENGINEERING

Curriculum 311

MASL #: P471020 (OCONUS); P170020 (RESIDENT)

Course Start: Any quarter chosen by the sponsor

Course Length: 104 weeks

The Master of Science in Systems Engineering DL degree program is designed for DoD organizations involved in a wide range of systems engineering and integration challenges. These commands can partner with NPS to educate and train engineers with tools and technologies relevant to their work, resulting in employees with greater knowledge and expertise to enable them to better meet the needs of their customers.

DoD organizations or sponsors provide the students, and the Department of Systems Engineering provides the instruction, course materials, and hands-on experience. Courses are delivered at the students' local site using a combination of on-site instruction, video teleconferencing, and Web-enhanced on-line courses. The program can begin any academic quarter, in accordance with the sponsor's needs. Students take two courses per quarter over a two-year period. There are ten core courses in the 16-course program. The remaining six courses can be tailored to meet the sponsor's need. Students must participate in a capstone design project in lieu of writing a thesis.

Students receive an NPS degree, may receive NPS Systems Engineering certificates of accomplishment, and earn DAU equivalency certificates for all SPRDE Level III training requirements. The program manager will help establish partnership arrangements with other organizations if desired. Additional information on the program can be found at www.nps.ed/dl/degree_Progs

Quotas: Limited to 30 students per year

Course Pre-requisites: An entering student must possess a Bachelor of Science degree in an engineering discipline with at least a 2.2 undergraduate grade point average.

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SPACE SYSTEMS OPERATIONS

Curriculum 316

MASL #: P471205 (OCONUS); P170205 (RESIDENT)

Course Start: Sept

Course Length: 104 weeks

The MS Space Systems Operations (MSSSO) program provides students with scientific, technical, and operational knowledge of military space systems. Graduates are prepared to manage the technical aspects of a space system life cycle including requirements definition and analysis, design, development, installation, operations, and maintenance of spacecraft, space payloads, supporting ground stations, terminals, and C2 connectivity.

terminals, and CS connectivity.

Quotas: Limited to 30 students per year

Course Pre-requisites:

- Baccalaureate Degree (BA or BS)
- Written Command Endorsement
- GPA of 2.6 or better
- Completion of mathematics through differential equations and integral calculus, plus at least one course in calculus-based physics
- A (Video-Tele-Education) VTE location

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MASTER OF SCIENCE IN COMPUTING TECHNOLOGY

Curriculum 357

MASL #: P471206 (OCONUS); P170206 (RESIDENT)

Course Start: January/July

Course Length: 208 weeks

The MCT degree offers its graduates the knowledge and skills necessary to specify, evaluate, and manage computer system development, as well as the ability to provide technical guidance in the analysis, design, and application of software and firmware used in the Navy. The MCT program consists of 16 courses selected to provide breadth and depth in the latest computing technologies.

Four courses provide a foundation in computer science for those without a CS background. Core courses then develop student expertise in a broad range of topics in the computing field. And a four-course sequence in a specialization area completes the degree. The MCT degree provides a graduate education for those in unique circumstances. State-of-the-art distance learning (DL) technology is used to bring the MCT program straight to the student on duty. With fully Web-based courses, there is no required "class time"—no need to get off the flight schedule, miss any watches, or adjust a duty schedule. MCT offers a seamless transition from duty station to duty station; when you move the program goes with you, even on the road.

The MCT degree is fully accredited and taught by the same faculty that teaches NPS resident courses. It is an excellent fit for those officers and government service (GS) personnel whose career track would not otherwise lend itself to receiving a resident technical graduate education. Available anywhere in the world, at home, on detachment, and at sea.

Quotas: Limited to 30 students per year

Course Pre-requisites: A baccalaureate degree, or the equivalent, with above average grades in mathematics, (including differential and integral calculus) resulting in an academic profile code (APC) of at least 325 is required. Undergraduate degrees in applied science or engineering are highly desirable. Students lacking these prerequisites may be acceptable for the program, providing their undergraduate records and/or other indicators of success, such as the Graduate Record Examination (GRE), indicate an ability to work in quantitative subjects. While previous academic or practical experience in computer science is certainly helpful and can enhance the applicant's potential for admission, such experience is not a prerequisite. Active/Active Duty Reserve U.S. military and GS personnel are eligible.

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MASTER OF SCIENCE IN SYSTEMS ANALYSIS (MSA)

Curriculum 363

MASL #P471207 (OCONUS); P170207 (RESIDENT)

Course Start: Spring and Fall quarters

Course Length: 104 weeks

The Master of Systems Analysis (MSA) program is a distributed learning, graduate degree program, designed to meet the needs of the Navy and other services in the Department of Defense (DoD) for technical graduate education in systems analysis as a basis for aiding key decisions on force requirements, weapon systems, and other defense matters. Students acquire foundation skills and hands-on experience in all aspects of analytical studies, which includes the skills to formulate problems, use the analytical process to design study requirements, highlight critical assumptions, recognize strengths and weaknesses of applied analytical methodologies, and evaluate study recommendations. This program is especially tailored to students whose career pattern will not allow them to get away for a full-time, graduate education program. The entire degree program can be completed at the student's current duty station. This program consists of a blend of approximately 50% Web-based, online instruction, and 50% video-tele-education (VTE). The Web-based instruction is paced week-to-week by the instructors, but the students have great flexibility to do their course work at times of their choosing during each week. The VTE classes meet at a scheduled time, once per week, during the workday, with the agreement of the student's current command.

Quotas: Limited to 30 students per year

Course Pre-requisites: A baccalaureate degree is required. Completion of mathematics through single variable differential and integral calculus is considered minimal preparation. An academic profile code (APC) of 335 is required.

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ENGINEERING MANAGEMENT/PRODUCT DEVELOPMENT (MS)

Curriculum 721

MASL#: P471022 (OCONUS) P174022 (RESIDENT)

Course Start: Fall quarter

Course Length: 104 weeks

The Naval Postgraduate School (NPS), as a partner in the Massachusetts Institute of Technology's (MIT) "Educational Consortium for Product Development Leadership in the 21st Century" (PD21), is delivering a joint executive systems engineering management degree using distance learning methods to military officers, senior enlisted, federal civilians and a limited number of defense contractor civilians. The program's joint focus is on joint services, joint engineering-management and joint government-industry. The joint executive SEM-PD21 degree program is modeled after the prototypic graduate program developed by MIT jointly between their School of Engineering and Sloan School of Management. The executive SEM-PD21 degree is designed to produce a cadre of change agents skilled in engineering and management to bring about dramatic improvements in the way American corporations and the defense

industry develop and build new systems and products.

Participants in this unique program are exposed to state-of-the-art concepts and tools, as well as world-class companies, leaders, and cross-industry best practices. Students acquire the foundation skills and strategic perspective necessary to become future leaders and senior managers responsible for driving product development and business growth through innovation, and become effective change agents at their companies. They develop a mindset receptive to change and continuous improvement, an understanding of the enablers to business success, and an enhanced ability to recognize barriers to success early in the product development cycle when corrective actions are least costly.

The SEM-PD21 curriculum is an eight-quarter distance learning curriculum with entry in the Fall quarter, which begins in late September with an onsite two-week kickoff at NPS in Monterey, CA. After the kickoff, classes are taken at students' sponsoring command locations by video teleconferencing or online. Students are expected to participate in two-three industry trips during the two-year course of study and a graduation ceremony in Monterey at the completion of the program. There will also be occasional Systems Engineering and Product Development seminars for all SEM-PD21 students within their existing course of study. SEM-PD21 website: http://www.nps.edu/dl/NPSO/degree_progs/PD21.html

Quotas: Limited to 30 students per year

Course Pre-requisites: For entry, the student must hold an undergraduate degree in engineering, or a related scientific or technical field, with high academic achievement. The student must be sponsored by an organization committed to supporting the student's full participation and have at least five years of experience directly related to product development (three years if student holds a master's degree). The application requirements can be found at the joint executive SEM-PD21 website at: http://www.nps.edu/dl/NPSO/degree_progs/PD21.html

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MASTER OF SCIENCE IN CONTRACT MANAGEMENT

Curriculum 835

MASL #: P471208 (OCONUS); P170208 (RESIDENT)

Course Start: Any quarter; dependent on cohort availability

Course Length: 104 weeks

The Master of Science in Contract Management (MSCM) degree is designed to provide civilians in the Department of Defense (DoD) and other federal government agencies an advanced education in the concepts, methodologies and analytical techniques necessary for successful management of acquisition and contracting within complex organizations. The curriculum focuses on problem solving and decision making within the acquisition environment utilizing case studies, teaming exercises, hands-on applications, active participation, and other similar activities. Lecture and laboratory tasks require the application of critical thinking to problem solving within actual situations. The MSCM Program embodies an interdisciplinary approach to problem solving and analysis, including quantitative financial analysis, economics, and public and private sector operations. The curriculum is designed to provide civilians with the knowledge, skills, and abilities to manage and lead effectively in systems buying offices, field contracting offices, contract administration offices, and contracting policy offices.

Quotas: Limited to 30 students per year

Course Pre-requisites: Candidates for the program must have achieved the following: a baccalaureate degree with a minimum undergraduate quality point rating (QPR) of 2.20; full certification at Level II or higher in the contracting career field under the provisions of the Defense Acquisition Workforce Improvement Act (DAWIA) (or equivalent certification for non-DoD personnel); and completion of an undergraduate course in management accounting.

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MASTER OF SCIENCE IN PROGRAM MANAGEMENT

Curriculum 836

MASL #: P471209; P170209

Course Start: Spring, Summer, Fall and Winter quarters depending on cohort availability

Course Length: 104 weeks

The Master of Science in Program Management (MSPM) degree is designed to provide primarily civilians (officers may participate with sufficient time on station to complete the program) in the Department of Defense (DoD) and other federal agencies an advanced education in the concepts, methodologies and analytical techniques necessary for successful management of programs/projects within complex organizations. The curriculum focuses on leadership, problem solving and decision making within the acquisition environment utilizing case studies, teaming exercises, hands-on applications, active participation and integrative exercises. Lecture and laboratory tasks require the application of critical thinking to problem solving within notional and actual situations. Student input includes civilians (officers) from all DoD services and other federal agencies. The curriculum is designed to provide graduates with the knowledge, skills and abilities to manage and lead effectively in the federal government acquisition environment.

Quotas: Limited to 30 students per year

Course Pre-requisites: Candidates for the program must have achieved the following: a baccalaureate degree with a minimum undergraduate quality point rating (QPR) of 2.20; full certification at Level II or higher in one of the following career fields: program management; contracting acquisition logistics; test & evaluation; systems planning, research, development and engineering; or manufacturing, production, quality assurance under the provisions of the Defense Acquisition Workforce Improvement Act (DAWIA) (or equivalent certification for non-DoD personnel); and completion of the following two courses: (1) a course in statistics, and (2) a course in calculus.

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INFORMATION SYSTEMS AND OPERATIONS(ISO)

Curriculum Number: 271 (CERTIFICATE)

MASL#: P471210 (OCONUS); P170210 (RESIDENT)

Course Start: Spring, Summer, Fall and Winter quarters depending on cohort availability

Course Length: 52 weeks

The Information Systems and Operations (ISO) academic certificate program is designed to provide DoD personnel with an opportunity to obtain advanced education in the operational arts supporting Information Operations via asynchronous Web-based media. The four courses in the ISO program represent the foundation on which modern warfare is built: Command and Control, Space Operations, Network Operations, and Information Operations. This four-course sequence is also the bedrock of all operations-oriented, NETWARCOM-sponsored curricula at the Naval Postgraduate School: Information Systems

and Operations; Information Warfare; Information Systems and Technology; Joint Command, Control, Communications, Computers, and Intelligence; Computer Science; and Space Systems Operations. These curricula exist because our armed forces must be prepared to fight and win the nation's wars across the full range of military operations in any part of the world, to operate with multinational forces, and to coordinate military operations, as necessary, with government agencies and international organizations. This requires a Total Force composed of well-educated, motivated, and competent people who can adapt to the many demands of future joint missions. The transformation of the joint force to reach this full spectrum dominance rests on information superiority as a key enabler and our capacity for innovation.

The ISO academic certificate provides the fundamental education needed to achieve information superiority, thus enabling full spectrum dominance. The actions associated with information operations are wide-ranging—from physical destruction to psychological operations to computer network defense. The task of integrating information operations with other joint force operations is complicated by the need to understand the many variables involved and integrating these variables across the spectrum of conflict—whether facing an adversary during a conflict or engaged in humanitarian relief operations. Achieving this aspect of JV 2020 will require exceptional personnel, well versed in Information Operations and its integration with national security and national military objectives.

The ISO academic certificate is provided through asynchronous Web-based media (i.e., the Internet) because DoD recognizes that this education should be available to their personnel regardless of geographic limitations. So, if students have access to the Internet, they have access to tools necessary to help meet U.S. national security objectives in the information battlespace. All courses in the ISO academic certificate are graduate-level courses carrying full NPS academic credit. They provide the baseline for advanced education in operationally essential disciplines. As such, they do not carry graduate prerequisite requirements; however, you must have demonstrated academic proficiency through completion of a baccalaureate degree program.

Quotas: Limited to 30 students per year

Course Pre-requisites: Applicants must have earned a baccalaureate degree to be considered for admission.

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INFORMATIONS SYSTEMS TECHNOLOGY (IST)

Curriculum Number: 272 (CERTIFICATE)

MASL#: P471211 (OCONUS); P170211 (RESIDENT)

Course Start: Spring, Summer, Fall and Winter quarters

Course Length: 52 weeks

The IST academic certificate provides education in the fundamentals of information systems technology. This education is essential to helping the U.S. military reach information superiority in the battlespace. It also offers advanced education in areas essential to enabling global networked communications, including: databases, systems analysis and design, decision support systems, and network security.

The IST academic certificate is provided through asynchronous Web-based media (i.e., the Internet) because DoD recognizes that this education should be available to their personnel regardless of geographic limitations. If you have access to the Internet, you have access to tools necessary to help meet U.S. national security objectives in the information battlespace.

All courses in the IST academic certificate are graduate-level courses carrying full NPS academic credit. They provide the baseline for advanced education in essential disciplines in information technology. As such, they do not carry graduate prerequisite requirements; however, you must have demonstrated academic proficiency through completion of a baccalaureate degree program.

Quotas: Limited to 30 students per year

Course Pre-requisites: Applicants must have earned a baccalaureate degree to be considered for admission.

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SPACE SYSTEMS CERTIFICATE (SSC)

Curriculum Number: 273

MASL#: P471213 (OCONUS); P170213 (RESIDENT)

Course Start: Spring, Summer, Fall and Winter quarters

Course Length: 52 weeks

The Space Systems Certificate program is comprised of four courses (SS3011, PH3052, SS3613, and OC2902). Upon successful completion of the course work, students will be awarded a certificate of accomplishment in keeping with standard practices of the Naval Postgraduate School. The Space Systems Certificate program supports Navy and DoD space educational needs and complements existing resident training by providing cross-disciplinary science and technical education. The Space Systems Certificate program is targeted primarily at the enhancing the education and preparation for the USN Space Cadre personnel. The Navy's Space Cadre represents a distinct body of expertise horizontally integrated within the Navy active duty, reserves, both officer and enlisted, and civilian

employee communities organized to operationalize space. Individuals completing the Space Systems certificate will receive an Additional Qualification Designator (AQD) of VS1 and will automatically be considered for designation as a member of the USN Space Cadre.

Two significant events specified the requirement to establish a distance learning program for National Security Space (NSS) personnel in space systems and space applications. First, the DoD-wide space educational requirement was identified by the Undersecretary of the Air Force, as the Executive Agent for Space, as required in the "Commission to Assess United States National Security Space Management and Organization" (2001). Second, the USN Space Cadre Human Capital Strategy was signed by Commander, Naval Network Warfare Command on 25 Jan 2005, stating that completion of NPS Space Systems Certificate satisfied approved entry level space education for Space Cadre personnel. Based upon these events, the NPS Space Systems Certificate (SSC) was developed, comprised of the following four courses:

- SS3011 Space Technology and Applications
- SS3613 Military Satellite Communications (MILSATCOM)
- PH3052 Physics of Space and Airborne Sensor Systems
- OC2902 Fundamentals of Geospatial Information and Services (GIS)

The original course and academic content for the SSC was vetted and approved by USN space and space training leaders. The Space Systems Certificate is a completely Web-based, asynchronous education program that covers fundamental areas of twenty-first century space enhancement to military operations as validated by NETWARCOM (November 2004). The learning outcomes for the SSC Certificate program directly support the Educational Skill Requirements within the Space Systems Operation (subspecialty code 6206P) degree. Evaluation of the Space Systems Certificate occurs in conjunction with the biannual Space Systems curriculum review.

Quotas: Limited to 30 students per year

Course Pre-requisites: A baccalaureate degree with above-average grades. Completion of college level Algebra 2 with a grade of 'C' or better is required.

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ANTI-SUBMARINE WARFARE CERTIFICATE PROGRAM (ASW)

Curriculum Number: 274
MASL#: P471214 (OCONUS) ; P170214 (RESIDENT)
Course Start: Contact the Program Manager. Normally once a year (March)
Course Length: 52 weeks

The curriculum for the Anti-Submarine Warfare (ASW) Certificate Program supports the needs of the Navy in ASW, and complements existing warfare ASW training and qualification.

The ASW Certificate Program provides a science and engineering foundation which covers fundamental concepts in four areas: Physical Oceanography; Signal Processing; Operations Research; and Engineering Acoustics. These subjects are the educational cornerstone for this highly interdisciplinary certificate program. Anti-Submarine Warfare encompasses multiple disciplines. The ASW Certificate is a distance learning curriculum that consists of four fully accredited courses delivered by multiple modes of instruction. Offered over a one-year period, these courses develop critical analytic skills and understanding of fundamental principles applied in ASW.

Quotas: Limited to 25 students per year

Course Pre-requisites:

- Baccalaureate Degree (BA or BS)
- Written Command Endorsement
- A working knowledge of single-variable calculus (MA1113)
- Probability and statistics

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SYSTEMS ANALYSIS CERTIFICATE (SA)

Curriculum Number: 281
MASL#: P471216 (OCONUS); P170216 (RESIDENT)
Course Start: Spring and Fall Quarters
Course Length: 52 weeks

The Systems Analysis Certificate program is a distributed learning, graduate-level, nondegree program designed to meet the needs of the Navy and other services in the Department of Defense (DoD) for nondegree technical education in systems analysis as a basis for aiding key decisions on force requirements, weapon systems, and other defense matters. Students learn and apply modeling, optimization, simulation, and decision making under risk and uncertainty.

The Certificate Program consists of four, fully-accredited courses delivered entirely online over a one-year period. The course content and projects will challenge the student academically and address problems of interest to the Department of Defense. The courses are paced week-to-week by the instructors, but the students have great flexibility to do their course work at times of their choosing during each week.

Quotas: Limited to 30 students per year

Course Pre-requisites: A baccalaureate degree is required. Completion of mathematics through single variable differential and integral calculus is considered minimal preparation. An academic profile code (APC) of 335 is required.

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SYSTEMS ENGINEERING CERTIFICATE (SE)

Curriculum Number: 282
MASL#: P471021 (OCONUS); P170021 (RESIDENT)
Course Start: Spring and Fall Quarters
Course Length: 52 weeks

Systems Engineering is a disciplined approach to finding the right solution to the right problem: on-time, on-budget, supportable, and with minimal risk.

The Certificate Program consists of four, fully-accredited courses delivered entirely on-line over a one-year period. The course content and projects will challenge the student academically and address current problems of interest to the Department of Defense. The courses are paced week-to-week by the instructors, but the students have great flexibility to do their coursework at times of their choosing during each week.

Quotas: Limited to 30 students per year

Course Pre-requisites: For entry, the officer must have at least a C+ undergraduate grade point average, with at least one calculus course with a C or better and at least one calculus-based physics course with a C or better (APC 334). If an officer is an outstanding performer but lacks the necessary academic preparation, the Naval Postgraduate School offers refresher and transition courses before the program start.

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