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The International Graduate Programs Office is responsible for the cultural, social and academic integration of international military students and their families into the Naval Postgraduate School. The office is charged with interacting with various military and civilian agencies to accomplish the goals of the US Joint Security Cooperation Education and Training Program (JSCETP) and the Field Studies Program (FSP). Additionally, it is responsible for the International Sponsor Program and acts as the Command Sponsor to the International Executive Committee.

Since 1954, over 6500 International officers from 126 countries have graduated from NPS. Many have gone on to achieve positions of prominence within their military services, governments, and private industry. The International Program at NPS serves as an integral link in establishing the long-term military-to-military relationships between our U.S. and International officers.

The contact information for requests for Naval Postgraduate School catalogs and admission to resident study programs and all degree programs for prospective international students is:

**Contact Information:**

**Mailing Address**
Naval Postgraduate School  
1 University Circle, Room B-047  
Monterey, CA 93943-5027

**Telephone**
831-656-2186 (DSN 756-2186)  
Fax: 831-656-3064

**Web Address**
http://www.nps.edu/Services/IGPO/index.html

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This catalog is available in pdf version at: http://my.nps.edu/web/igpo/course-offerings. To view the webpage for the full NPS Course Catalog, visit: www.nps.edu/admissions/catalog
INTRODUCTION

January 2024

The Naval Postgraduate School (NPS), founded in 1909, is a fully accredited university offering over 75 unique academic curricula to military and civilian members of the Department of Defense and our allies around the world. These graduate level programs are focused on increasing the combat effectiveness of our armed forces and coalition partners, and fully support the unique and emerging requirements of the defense establishment. All programs contain a military application and are not duplicated at civilian colleges and universities. The uniqueness of NPS is further enhanced by an outstanding civilian tenured faculty (100% with PhDs) and a motivated and talented multi-service, interagency and coalition student body. Each curriculum has a military sponsor (flag or general officer) who reviews the course content with our faculty and program officers every two years, thus enabling us to change and adjust our courses to quickly meet the current needs of the Department of Defense, other governmental agencies and our international partners.

As of January 2024, the NPS international graduate program has graduated over 6800 students from 127 countries. We start Calendar Year 2024 with an international program which continues to be highly diverse and unique. Current international enrollment includes 183 students from 52 countries (a complete breakdown of the countries represented by our resident graduate students can be found on the student statistics page). It is important to note that over 40% of current NPS international students are enrolled in curricula designated as Professional Military Education (PME), which makes those programs eligible for the 50% of IMET funding which must be allocated to PME. In addition, approximately 10% of these students are enrolled in Expanded International Military Education and Training (E-IMET) certified programs to include the Master of Arts in Security Studies (Civil-Military Relations) and numerous defense resource management - related curricula to include Acquisition and Contracting, Materiel Logistics Support, Financial Management, Information Systems Management and Defense Resource Planning and Management.

While all NPS programs focus on defense and security-related issues highly relevant to our international partners, there are several which have experienced the greatest international enrollment in recent years. These include the MS in Special Operations/ Irregular Warfare - Curriculum 699 (P173200), the MS in Combating Terrorism Policy and Strategy - Curriculum 693 (P173201) and the MS in Operations Analysis - Curriculum 360 (P177714). In addition, the Cyber Security Fundamentals and Cyber Security Defense Certificates - Curricula 257 and 259, respectively (combined as one six-month program under MASL P170026) have been highly popular with partners and allies. Finally, a wide range of technical programs are available including Computer Science – Curriculum 368 (P177713), Information Systems and Technology - Curriculum 370 (P179904), Combat Systems (Applied Physics) - Curriculum 533 (P179906), Systems Engineering - Curriculum 580 (P174270), Electronic Systems Engineering - Curriculum 590 (P177712) and Aerospace Engineering - Curriculum 609 (P179647). Given current challenges worldwide in the cyber security arena, it is important to note that both the Computer Science and Electronic Systems Engineering curricula include Cyber Security options. See the descriptions in the following pages of this catalog for specifics on these and our many other programs.

The National Security Affairs Department presents a new offering to address maritime operations in a coalition environment. It is the three-month Certificate in Maritime Security Cooperation (P179688). It is very popular with our international partners and U.S. Navy students.

I am also happy to report that we continue to offer most of our Distance Learning curricula and certificate programs to the international community. Normal academic requirements, admissions procedures, and funding requirements apply. For course titles and MASL numbers check out the Distance Learning section.

The information contained in this booklet is designed to answer basic questions regarding admission, academic programs available and other pertinent information necessary to make an orderly transition to life at the Naval Postgraduate School. Don’t hesitate to call or write if you require additional information. We look forward to supporting your needs, as our top priorities are for our students to gain the greatest possible benefit from their academic experience and enjoy their tours at NPS to the fullest!

Danial Pick
COL, USA (Ret)
Director, International Graduate Programs Office (IGPO)
183 Students
52 Countries

Winter Quarter
AY24

North America
Canada
Mexico

Caribbean, Central and South America
Argentina
Brazil
Chile
Colombia
Guatemala
Perú

Europe
Denmark
Estonia
Georgia
Germany
Greece
Hungary
Netherlands
Norway
Romania
Slovakia
Sweden
Türkiye
Ukraine

Central/South Asia and Middle East
India
Israel
Jordan
Kazakhstan
Kuwait
Oman
Pakistan
Saudi Arabia

Africa
Algeria
Benin
Cameroon
Djibouti
Egypt
Ghana
Kenya
Morocco
Mozambique
Niger
Nigeria
Sierra Leone
Tanzania

Southeast/East Asia
Australia
East/Southeast Asia
Australia
Indonesia
Japan
Korea
Mongolia
Nepal
Philippines
Singapore
Sri Lanka
Taiwan
ADMISSION REQUIREMENTS

1. Admission Eligibility. The Naval Postgraduate School is an accredited graduate degree university established for the advanced education of selected United States and allied military officers on active duty. The only civilian students eligible for admission are employees of an agency within the United States government or of sponsoring allied governments.

2. Admission Procedures. Unlike civilian schools, the Naval Postgraduate School does not accept applications for admission directly from prospective students. All international students must be formally sponsored and nominated by their respective governments. For admission into a specified curriculum at NPS, requests for evaluation of academic records should be made through appropriate channels in the prospective student’s Ministry of Defense, which will coordinate the prospective student’s request through the Office of Defense Cooperation (ODC) at the U.S. Embassy in country. The ODC will forward the required academic records to NPS for formal evaluation for admission to the specified curriculum. Ideally, academic records should be received by NPS four to six months prior to the requested start date.

3. Academic Requirements. Academic requirements are straightforward and simple. All students accepted for admission must possess, at a minimum, a baccalaureate degree or equivalent. This course work must have been completed at a recognized university or college with a grade point average of at least C+ (2.20 on a 4.0 scale). For curricula in the Department of National Security Affairs, a candidate’s grade point average must be at least 2.6. A legible copy, in English, of the official transcript from each college and university attended by the prospective student is required for evaluation. Transcripts should include the titles or subject areas of each course completed, the number of credit hours or units earned per course, the grade or score received for each course, and the date and name of each degree and certificate awarded. Transcripts should also explain the grading system or scale in use and define the minimum passing grade according to that system. For technical or engineering programs, successful completion of calculus and calculus-based physics must be documented as well. The Department of Defense Management (DDM) degree programs and Special Operations curricula require successful completion of college level algebra. Prospective Ph.D. students must submit an application package including current results of the Graduate Record Examination (GRE). Please note that the GRE is not required for master’s degree programs.

4. English Proficiency Requirement. An advanced level of English language proficiency is critical to an international student’s success at the Naval Postgraduate School. Unless an international applicant is exempt or waived from English language testing in accordance with Defense Security Cooperation Agency (DSCA) Policy Memorandum 21-68 published in December 2021, English proficiency must be demonstrated through testing.

A. TOEFL Exempt Countries. Antigua, Australia, Austria, Bahamas, Barbados, Belgium, Belize, Brunei, Canada, Denmark, Dominica, Finland, Germany, Grenada, Guyana, India, Ireland, Jamaica, Kenya, Malta, Mauritius, Netherlands, New Zealand, Norway, Pakistan, Seychelles, Singapore, Sweden, Switzerland, St. Kitts, St. Lucia, St. Vincent, Trinidad and Tobago, and United Kingdom.

B. TOEFL Waivers. Applicants are waived from taking the TOEFL test if they hold a Baccalaureate or Master's degree from an accredited U.S. university, a university in a TOEFL-exempt country, or a university in which the instruction was conducted in English.

C. TOEFL Requirement. International candidates for degree and certificate programs at NPS without a TOEFL waiver or country exemption will be required to validate their fluency in English through the Test of English as a Foreign Language (TOEFL).

• Minimum TOEFL Score Requirements. The minimum TOEFL score required for direct entry to NPS is 83 iBT (Internet Based Test) or 560 (written test). Additionally, the IGPO requires that a candidate achieve a minimum of 18 in each of the four testing sections of the iBT (reading, listening, speaking, and writing).
  i. Candidates applying for entry into the Department of National Security Affairs (curricula 681-693 and 245-249) are required to score 90 or higher on the iBT. Waiver requests for scores between 83 and 90 will be considered on a case-by-case basis.
  ii. Candidates for PhD programs or accelerated programs are required to score a minimum of 100 on the iBT. Waiver requests will be considered on a case-by-case basis for scores between 90 and 100 and on the overall application package.
• **TOEFL Testing.** The TOEFL is administered by the Educational Testing Service (ETS). Visit the ETS TOEFL website [www.ets.org/toefl](http://www.ets.org/toefl) for information about registration, cost, and testing dates and locations. The candidate should take the TOEFL two to three months before the requested NPS start date to ensure the scores are reported to NPS in time. Also, taking the TOEFL early will allow candidates enough time to retest if necessary.

• **NPS TOEFL Institution Code 4831.** When registering to take the TOEFL, include the NPS identification code 4831 so that a copy of the TOEFL results will be sent directly to NPS. TOEFL test results are valid for two years from the test date and must be valid when the student reports to NPS.

• **DLIELC TOEFL Preparatory Course.** A candidate who fails to achieve the minimum 83 iBT score required for admission to NPS may be eligible to attend the 12-week TOEFL Preparatory Course, MASL D177040 at the Defense Language Institute English Language Center (DLIELC) at Lackland AFB in San Antonio, Texas.

i. Entry requirements for this course are either a score of 70 on the TOEFL iBT or a score of 85 on the English Comprehension Level (ECL) test with a 2/2 on the Oral Proficiency Interview (OPI).

ii. Upon completion of the TOEFL Prep course, the minimum TOEFL score requirement for admission to NPS is 78 (iBT) with a minimum of 16 in each of the four testing sections (reading, listening, speaking, and writing). For candidates applying for entry into the Department of National Security Affairs (curricula 681-693 and 245-249), the minimum requirement upon completion of the TOEFL Prep course is 85 (iBT).

For more information, see the DLIELC catalog and SCO handbook: [https://www.dlielc.edu/prod/Catalog.pdf](https://www.dlielc.edu/prod/Catalog.pdf).

**2024-2025 DLIELC TOEFL Prep Course Dates:**

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**D. International English Learning Testing System (IELTS).** The IELTS may be substituted for the TOEFL test in countries where the TOEFL is not available. A score of 6.5 is required for direct entry to NPS. A score of 5.0 will be required for entry to the TOEFL Prep course.

**5. Ph.D. 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 PhD applications shall be submitted to the International Graduate Programs Office.

The application must include the following:

- 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. (For candidates pursuing a PhD in Security Studies, an expository writing sample demonstrating potential to do work of high academic quality (master’s thesis) in 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) are required. Candidates for PhD programs or accelerated programs are required to score a minimum of 100 on the IBT. Waivers will be considered on a case-by-case basis for scores between 90 and 100 based on the overall application package.

The TOEFL is not required for IMS having a Baccalaureate or Master’s degree from a U.S. university, a university in a TOEFL-exempt country, or a university in which the instruction was conducted in English.
Note: Professional Military Education (PME) courses are eligible for the 50% of IMET funding which must be allocated to PME programs. E-IMET-certified courses meet the requirement that at least 10 percent of the IMET allocation must fund E-IMET courses (or twenty percent for countries identified annually by the Dept. of State as having a problematic human rights history involving the military). Gray highlight indicates certificate course.

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MSI/ MARITIME SECURITY COOPERATION CERTIFICATE (241)

Curriculum 241
MASL# P179688

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Course Length: 13 weeks (one quarter)

Program Description: The Academic Certificate Program in Maritime Security/Maritime Security Cooperation is designed to provide US and international partner military officers and civilians in defense and security-related positions with Maritime Security Cooperation-specific knowledge across a wide range of topical areas including strategy, policy and CONOPS development, International Maritime Standards, relevant intelligence, surveillance and reconnaissance (ISR) capabilities, data fusion and analysis and information sharing.

Certificate enrollees will benefit from serious engagement with current academic and strategy/policy work at the graduate level and will develop the critical thinking skills needed to address Maritime Security Cooperation challenges in their specific region. The certificate will include courses in regional security, maritime strategy, and defense capability development. In addition, the certificate will include a practical exercise focused on information sharing and Maritime Security Cooperation. The Certificate requires successful completion of four graduate courses focusing on Maritime Security Cooperation topics (16 credit hours), of which at least one course (4 credit hours) must be at the 4000-level.

The Maritime Security Cooperation Certificate will initially be offered in the spring quarter (March through June) of the NPS academic year, with potential for additional offerings based on demand. The program is open to military officers in the rank equivalent grade of O3 through O6 (U.S. services), and qualified foreign military officers. DoD employees and foreign civilians in defense or security-related positions are also eligible.
REGIONAL SECURITY STUDIES (MIDDLE EAST, SOUTH ASIA, AND AFRICA)
CERTIFICATE (246)

Curriculum 246
MASL# P179646

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 21 Jun 24  27 Sep 24  20 Dec 24  28 Mar 25

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 20 Jun 25  26 Sep 25  19 Dec 25  27 Mar 26

Course Length: 13 weeks (one quarter)

Program Description: This program is designed to provide region-specific knowledge for select regionally-aligned force officers who will benefit from serious engagement with current academic and policy work on their region of specialization. The certificate requires successful completion of a minimum of three graduate courses focusing on the region (12 credit hours), of which at least one course (4 credit hours) must be at the 4000-level. Each student’s required course work is developed individually under the direction of the Academic Associate, based on the relevant regional courses available during the quarter(s) when the student is in residence. Students may begin their course of study in any academic quarter.

Course offerings in NSA vary from year to year. The following illustrate what a (minimum) acceptable combination of courses might look like. Many other combinations are possible.

Example 1 (Middle East concentration)
NS3320, United States Foreign Policy in the Middle East
NS3330, Comparative Politics of the Middle East
NS4315, Security and Politics in Iran

Example 2 (South Asian concentration)
NS3668, Politics and Security in South Asia
NS4661, Contemporary Afghan Politics
NS4664, Religious Activism in South Asian Politics

Example 3 (Sub-Saharan Africa concentration)
NS3301, African History and Cultures
NS3311, Government and Politics in Sub-Saharan Africa
NS4328, Government and Security in the Horn of Africa
REGIONAL SECURITY STUDIES (EAST ASIA & INDO-PACIFIC) CERTIFICATE (247)

Curriculum 247
MASL# P179648

2024
Course Report: 17 Mar 24 23 Jun 24 15 Sep 24 29 Dec 24
Course Convene: 01 Apr 24 08 Jul 24 30 Sep 24 30 Dec 24
Course Complete: 21 Jun 24 27 Sep 24 20 Dec 24 28 Mar 25

2025
Course Convene: 31 Mar 25 07 Jul 25 29 Sep 25 29 Dec 25
Course Complete: 20 Jun 25 26 Sep 25 19 Dec 25 27 Mar 26

Course Length: 13 weeks (one quarter)

Program Description: This program is designed to provide region-specific knowledge for select regionally-aligned force officers who will benefit from serious engagement with current academic and policy work on their region of specialization. The certificate requires successful completion of a minimum of three graduate courses focusing on the region (12 credit hours), of which at least one course (4 credit hours) must be at the 4000-level. Each student’s required course work is developed individually under the direction of the Academic Associate, based on the relevant regional courses available during the quarter(s) when the student is in residence. Students may begin their course of study in any academic quarter.

International students whose native language, or language of prior instruction, was other than English, are required to have obtained a minimum total score of 90 on the internet-based Test of English as a Foreign Language (TOEFL), or a score of 560 on the written test.

Course offerings in NSA vary from year to year. The following illustrate what a (minimum) acceptable combination of courses might look like. Many other combinations are possible.

Example 1 (East Asia [general regional] concentration)
NS3600, History of Modern East Asia
NS3662, Government and Security in Japan
NS4645, Asian Security: Theory and Practice

Example 2 (Southeast Asian concentration)
NS3601, History and Cultures of Southeast Asia
NS3621, International Relations of Southeast Asia
NS4641, Political and Ethnic Violence in Southeast Asia

Example 3 (East Asia [China] concentration)
NS3661, Government and Security in China
NS4642, Chinese Foreign Policy
NS4024, Political Economy of China
REGIONAL SECURITY STUDIES (WESTERN HEMISPHERE) CERTIFICATE (248)

Curriculum 248
MASL# P179649

2024
Course Report: 17 Mar 24 23 Jun 24 15 Sep 24 29 Dec 24
Course Convene: 01 Apr 24 08 Jul 24 30 Sep 24 30 Dec 24
Course Complete: 21 Jun 24 27 Sep 24 20 Dec 24 28 Mar 24

2025
Course Convene: 31 Mar 25 07 Jul 25 29 Sep 25 29 Dec 25
Course Complete: 20 Jun 25 26 Sep 25 19 Dec 25 27 Mar 26

Course Length: 13 weeks (one quarter)

Program Description: This program is designed to provide region-specific knowledge for select regionally aligned force officers who will benefit from serious engagement with current academic and policy work on their region of specialization. The certificate requires successful completion of a minimum of three graduate courses focusing on the region (12 credit hours), of which at least one course (4 credit hours) must be at the 4000-level. Each student’s required course work is developed individually under the direction of the Academic Associate, based on the relevant regional courses available during the quarter(s) when the student is in residence. Students may begin their course of study in any academic quarter.

Course offerings in NSA vary from year to year. The following illustrate what a (minimum) acceptable combination of courses might look like. Many other combinations are possible.

Example 1
NS3501, History and Cultures of Latin America
NS3510, Government and Politics in Latin America
NS4560, Seminar on Latin American Security Issues

Example 2
NS3520, Latin American International Relations
NS3560, Political and Social Change in the Andes
NS4540, The Political Economy of Latin America

Example 3
NS3501, History and Cultures of Latin America
NS4501, Politics, Film, and Fiction in Latin America
NS4059, Special Topics: Latin America
REGIONAL SECURITY STUDIES (EUROPE AND EURASIA) CERTIFICATE (249)

Curriculum 249
MASL# P179667

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 21 Jun 24  27 Sep 24  20 Dec 24  28 Mar 25

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 20 Jun 25  26 Sep 25  19 Dec 25  27 Mar 26

Course Length: 13 weeks (one quarter)

Program Description: This program is designed to provide region-specific knowledge for select regionally-aligned force officers who will benefit from serious engagement with current academic and policy work on their region of specialization. The certificate requires successful completion of a minimum of three graduate courses focusing on the region (12 credit hours), of which at least one course (4 credit hours) must be at the 4000-level. Each student’s required course work is developed individually under the direction of the Academic Associate, based on the relevant regional courses available during the quarter(s) when the student is in residence. Students may begin their course of study in any academic quarter.

Course offerings in NSA vary from year to year. The following illustrate what a (minimum) acceptable combination of courses might look like. Many other combinations are possible.

Example 1 (Europe concentration)
NS3700, History of Modern Europe
NS3720, European Security Institutions
NS4021, Europe and the United States

Example 2 (Eurasia concentration)
NS3466, Central Asian History
NS3401, Contemporary Politics in Russia
NS4410, Seminar on Security Issues in Russia, Eastern Europe, and Central Asia

Example 3 ([Western] Europe concentration)
NS3710, Introduction to European Politics
NS4037, NATO
NS4022, Soldiers and Politics in the Euro-Atlantic Region
REGIONAL SECURITY STUDIES (681-684)

Curricula 681-684 (MA)

MASL# P179031 Curriculum 681 – Middle East, Southeast Asia, and Sub-Saharan Africa
MASL# P179032 Curriculum 682 – Far East, Southeast Asia, and Pacific
MASL# P179034 Curriculum 683 – Western Hemisphere
MASL# P179033 Curriculum 684 – Europe, Russia, and Central Asia

2024
Course Report: 17 Mar 24 23 Jun 24 15 Sep 24 29 Dec 24
Course Convene: 01 Apr 24 08 Jul 24 30 Sep 24 30 Dec 24
Course Complete: 26 Sep 25 19 Dec 25 27 Mar 26 18 Jun 26

2025
Course Convene: 31 Mar 25 07 Jul 25 29 Sep 25 29 Dec 25
Course Complete: 25 Sep 26 18 Dec 26 26 Mar 27 18 Jun 27

Course Length: 78 weeks (6 quarters)

Program Description: Provides students with a wide knowledge and thorough understanding of the complex inter-related environments pertaining to national security affairs, as well as addresses the interface between international politics, civil-military relations, and national security objectives. Places emphasis on the proper role of the military in a democratically elected government. Curricula focus is on the history, culture, and religion of a specific region or country and provides students with knowledge of current issues, economic and political structures and institutions, military forces, including strategic capabilities and policy implications, and geopolitical influences. Students receive extensive exposure to human rights issues.

CIVIL MILITARY RELATIONS (685)

Curriculum 685 (MA)
MASL# P171403

2024
Course Report: 17 Mar 24 23 Jun 24 15 Sep 24 29 Dec 24
Course Convene: 01 Apr 24 08 Jul 24 30 Sep 24 30 Dec 24
Course Complete: 20 Jun 25 19 Sep 25 12 Dec 25 20 Mar 26

2025
Course Convene: 31 Mar 25 07 Jul 25 29 Sep 25 29 Dec 25
Course Complete: 18 Jun 26 25 Sep 26 18 Dec 26 26 Mar 27

Course Length: 65 weeks (5 quarters)

Program Description: This curriculum is an inter-disciplinary program, tailored for officers and civilian employees of other countries and the U.S. National Guard. The program is designed to meet three related needs. First, the program gives students the skills they need to understand the security problems confronting their own democracies in the post-Cold War environment, and the challenges of bringing about change in the defense sector. Second, the program offers an in-depth understanding of civil-military relations. Finally, the program prepares students to resolve the civil-military issues raised by participation in U.N. peacekeeping operations, membership in the Partnership for Peace and other alliances, and security cooperation among nations. International students in this program are fully integrated with the U.S. students at the Naval Postgraduate School. As part of the degree, students are required to complete a thesis that deals with a significant civil-military relations issue in the sponsoring country.
STRATEGIC STUDIES (688)

Curriculum 688 (MA)
MASL# P179035

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 20 Jun 25  19 Sep 25  12 Dec 25  20 Mar 26

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 18 Jun 26  25 Sep 26  18 Dec 26  26 Mar 27

Course Length: 65 weeks (5 quarters)

Program Description: Strategy is concerned with the use of force to further the ends of policy. The aim of this curriculum is to produce students with a thorough understanding of the relationship between force and politics, and of the relationship of force to other instruments by which the ends of policy may be pursued. Graduates will possess a comprehensive knowledge of US national security and defense policy and military strategy. They will have the ability to develop and coordinate national and military strategy; to develop concepts and plans to employ military forces at the national and theater levels; to write strategic- and operational-level vision and guidance documents; and to formulate, articulate, and coordinate the employment of all dimensions of military power to support the ends of American national policy.

Strategic Studies is a multi-disciplinary degree program grounded in the fields of history, international relations, comparative politics, and political economy, and requires completion of a Master's thesis as the capstone degree requirement. Satisfactory completion of the four-course Naval War College JPME sequence is required for Navy officers. Students who are not required, or do not desire, to complete JPME are expected to develop a coherent four-course elective sequence in its place.

Specialization Track Options.
Track Core Requirement courses will be determined by the selection of the following specialization track option.

- **Strategic Studies (Nuclear Command, Control, and Communications)**
  This inter-disciplinary curriculum provides officers with expertise in nuclear strategy and international security combined with technical knowledge in nuclear command, control, and communications (NC3). This curriculum is pedagogically innovative, focusing on the Navy’s S&T objectives and on Great Power Competition. The program is for U.S. military students with Secret-level or higher clearance only. It is a 4-quarter (12-month) program.

- **Strategic Studies (Space Operations)**
  This inter-disciplinary curriculum provides officers with social science expertise in policy and strategy combined with technical knowledge in space science and military space applications. This curriculum is pedagogically innovative, focusing on the Navy’s S&T objectives and on Great Power Competition. The program is available for U.S. military students as well as for international students and U.S. civilians. It is a 4-quarter (12-month) program.
COUNTERTERRORISM AND HOMELAND DEFENSE (691)

Curriculum 691
MASL# P173027

**2024**
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 20 Jun 25  19 Sep 25  12 Dec 25  20 Mar 26

**2025**
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 18 Jun 26  25 Sep 26  18 Dec 26  26 Mar 27

**Course Length:** 65 weeks (5 quarters)

**Program Description:** Counterterrorism and Homeland Defense provides military officers with a theoretical and practical understanding of unconventional threats within the framework of the domestic security environment, and organizational strategies to deal with such threats. It explores the military's primary role in deterring and preventing attacks on domestic territory and in consequence management should such attacks occur. National strategic interests and objectives; the roles missions, structures, and effectiveness of Homeland Security organizations and intelligence organizations, as well as potential threats to domestic security are examined.

Curriculum 691 is a five-quarter (15-month) program. Students may enter in any quarter. Resulting degree is a Master of Arts in Security Studies (Homeland Security and Defense).

**Course Pre-requisites:** Candidates for the program must have achieved the following: a baccalaureate degree with an undergraduate 3.0 grade point average for all undergraduate coursework or awarded a graduate degree. International candidates must have a TOEFL score of 90 or above. International candidates must be in national security positions and must be nominated by their appropriate government agency to the military training office at the U.S. Embassy in their country as specified in the US Joint Security Cooperation Education and Training regulations.

**Effective FY2024: Specialization Track Options.**
Track Core Requirement courses will be determined by the selection of the following specialization track option.

- **Homeland Defense and Security** (formerly known as Curriculum 692 – MASL P173024)
  The program provides qualified students with the skills to develop strategies, plans and programs to prevent, mitigate and respond to disastrous events; build the organizational arrangements needed to strengthen homeland security; and, improve homeland security preparedness by developing actionable policy and strategy. Courses cover emerging topics in homeland security and emergency management, including policy, budgeting, intelligence, comparative government and critical infrastructure protection. The curriculum is structured around the key policy and organizational design problems that future homeland security leaders are likely to confront and the analytic skills they will need to meet those challenges. Each course in the curriculum requires students to master the core issues, principles and problem-solving approaches for the topic in question and apply those fundamentals to the specific challenges confronting their own jurisdictions or sponsoring organizations.
COMBATING TERRORISM POLICY AND STRATEGY (693)

Curriculum 693 (MA)
MASL# P173201

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 20 Jun 25  19 Sep 25  12 Dec 25  20 Mar 26

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 18 Jun 26  25 Sep 26  18 Dec 26  26 Mar 27

Course Length: 65 weeks (5 quarters)

Program Description: This five-quarter curriculum provides an understanding of the nature and dynamics of terrorist organizations, and the domestic and international variables involved in the formulation of counterterrorist policy. The curriculum allows the students to combine a regional focus with comparative courses that discuss terrorist organizations and operations, the financing of terror, legal and policing developments in counterterrorism, intelligence, and the military role in homeland defense. The NSA department is a unique environment in which to pursue this course of studies since its student body is inherently joint and combined, providing students with both a stimulating intellectual environment and an opportunity to establish networks and life-long working relationships with fellow officers from other services and countries.
DOCTOR OF PHILOSOPHY IN SECURITY STUDIES (694)

Curriculum 694
MASL# P173401 (PhD – 3 year program)

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<th>Year</th>
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<th>Course Complete</th>
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<td>29 Dec 24</td>
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2025
Course Convene: 31 Mar 25 07 Jul 25 29 Sep 25 29 Dec 25
Course Complete: 24 Mar 28 16 Jun 28 15 Sep 28 15 Dec 28

Curriculum 694
MASL# P173402 (PhD – 4 year program)

2024
Course Report: 17 Mar 24 23 Jun 24 15 Sep 24 29 Dec 24
Course Convene: 01 Apr 24 08 Jul 24 30 Sep 24 30 Dec 24
Course Complete: 24 Mar 28 16 Jun 28 15 Sep 28 15 Dec 28

2025
Course Convene: 31 Mar 25 07 Jul 25 29 Sep 25 29 Dec 25
Course Complete: 24 Mar 29 15 Jun 29 21 Sep 29 14 Dec 29

Course Length: 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: Security Studies is a multidisciplinary field based on the traditional academic disciplines of Political Science, History, and Economics. The doctoral program in Security Studies seeks to equip students with the skills and knowledge required to do work of the highest professional quality in these areas, with emphasis on understanding the challenges and characteristics of modern security and defense policy. Doctoral training is inherently open-ended, being dependent upon completion of a Ph.D. dissertation of significant scope and originality. Successful completion of the program requires one year of in-residence course work beyond the Master's degree, and the completion of a doctoral dissertation of sufficient scope and quality to constitute an original and independent contribution to knowledge. A normal Ph.D. tour is three years, of which the last two are spent conducting research and writing the dissertation. Given the open-ended nature of dissertation research, however, there can be no assurance that the program can be completed in three years. Admission to the Ph.D. program in Security Studies is available to officers of all the U.S. armed services, civilian federal employees, and to individuals sponsored by selected allied nations. Applicants must possess a Master's Degree in Security Studies or a closely-allied field (Political Science, History, Economics, etc.) by the time doctoral instruction begins.

General Degree Requirements: The NSA doctoral program requires one year of course work beyond the Master's degree. Courses are tailored to develop the candidate's analytical and methodological foundations in two of the following four disciplines: international relations, international political economy, comparative politics, and history. Additionally, elective courses and directed readings assist students in developing their dissertation topic, and prepare them to take required written and oral qualifying examinations.
DEPARTMENT OF COMPUTER SCIENCES (CS) & OPERATIONS RESEARCH (OR) PROGRAMS
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Program Description: The Cyber Security Fundamentals graduate certificate is intended to provide a technically rigorous foundation upon which to build knowledge and skills in computer network defense, attack and exploitation. Each course is comprised of both instruction and laboratory exercises involving cyber security aspects of computers and networks. These synergistic activities allow students to internalize key concepts in cyber security. The courses and material covered in the Cyber Security Fundamentals certificate satisfy prerequisite requirements for advanced cyber security courses offered by the Computer Science Department of the Naval Postgraduate School. The three courses in the certificate sequence are a subset of the graduate courses in the Department’s Computer and Network Security specialization track. The total number of NPS graduate credits obtained for the certificate is 13.5, where laboratory credits are counted as half. Courses may be taken two at a time or as a linear sequence of individual offerings. This certificate program can also be applied toward a master’s degree program, e.g. to Curriculum 368.

Course Pre-requisites
Baccalaureate degree, or the equivalent, with above average grades in mathematics, (including discrete math, and differential and integral calculus) resulting in an APC of 325 is required for direct entry. Undergraduate degrees in applied science or engineering are highly desirable. Students lacking these prerequisites may be acceptable for the program, through waivers given by the Academic Associate and Program Officer on a case-by-case basis.

Required Courses:
CS3600 Introduction to Computer Security or CS4600 Secure System Principles
CS3670 Information Assurance: Secure Management of Systems
CS3690 Network Security or CS3695 Network Vulnerability Assessment
**Program Description:** The Cyber Security Fundamentals graduate certificate is intended to provide a technically rigorous foundation upon which to build knowledge and skills in computer network defense, attack and exploitation. Each course is comprised of both instruction and laboratory exercises involving cyber security aspects of computers and networks. These synergistic activities allow students to internalize key concepts in cyber security. The courses and material covered in the Cyber Security Fundamentals certificate satisfy prerequisite requirements for advanced cyber security courses offered by the Computer Science Department of the Naval Postgraduate School. The three courses in the certificate sequence are a subset of the graduate courses in the Department’s Computer and Network Security specialization track. Entering students are expected to have some computer programming experience. The total number of NPS graduate credits obtained for the certificate is 13.5, where laboratory credits are counted as half. This certificate program can also be applied toward a master’s degree program, e.g. to Curriculum 368.

Using the foundation established through the Cyber Security Fundamentals certificate, students enrolled in Cyber Security Defense graduate certificate will obtain a detailed understanding of and ability to function in real operational situations involving cyber security. They will gain the technical depth required to actively prepare for and respond to attacks. Students will learn to analyze network traffic to extract the observable characteristics of networks and network devices, thus providing a basis for defensive strategies. They will learn to build tools and how to configure systems and networks to permit systems to foster resiliency and continuity of operations, perhaps with reduced capacity, through attacks. Students will learn how to construct systems and tools to mitigate the impact of malicious software. Students will learn forensic techniques to retrieve and analyze stored information that may be corrupted or hidden. Considerable programming and hands-on work with systems and networks will be required. Students entering this program are expected to have a strong foundation in cyber security and networking. In addition, entering students will be expected to understand and use the languages and techniques of operating system and network component development: the C programming language, assembly, shell scripting, use of linkers, loaders, and debuggers. The total number of NPS graduate credits obtained for the certificate is 12, where laboratory credits are counted as half. This certificate program can be applied toward a master's degree program, e.g. to Curriculum 368.

Of note, both Cyber Security Certificates (257/259) are typically earned simultaneously in two quarters

**Required Courses for 257:**
- CS3600 Introduction to Computer Security OR CS 4600 Secure System Principles
- CS3670 Information Assurance: Secure Management of Systems
- CS3690 Network Security OR CS3695 Network Vulnerability Assessment and Risk Mitigation

**Required courses for 259:**
- CS4558 Network Traffic Analysis
- CS4677 Computer Forensics
- CS4684 Cyber Security Incident Response and Recovery OR CS4600 Secure Systems Principles
**CYBER SECURITY DEFENSE CERTIFICATE (258)**

Curriculum 258  
MASL# P471027 (Distance Learning)

**Course Report Date:** Any quarter

**Course Length:** 39 weeks (3 quarters)

**Program Description:** Using the foundation established through the Cyber Security Fundamentals certificate, students enrolled in Cyber Security Defense graduate certificate, will obtain a detailed understanding of and ability to function in real operational situations involving cyber security. They will gain the technical depth required to actively prepare for and respond to attacks. Students will learn to analyze network traffic to extract the observable characteristics of networks and network devices, thus providing a basis for defensive strategies. They will learn to build tools and how to configure systems and networks to permit systems to foster resiliency and continuity of operations, perhaps with reduced capacity, through attacks. Students will learn how to construct systems and tools to mitigate the impact of malicious software. Students will learn forensic techniques to retrieve and analyze stored information that may be corrupted or hidden. Considerable programming and hands-on work with systems and networks will be required. Entire courses, or units within them, may be taught at the classified level, thus facilitating classroom discussions on emerging challenges and capabilities. Students entering this program are expected to have a strong foundation in cyber security and networking. In addition, entering students will be expected to understand and use the languages and techniques of operating system and network component development: the C programming language, assembly, shell scripting, use of linkers, loaders, and debuggers.

The total number of NPS graduate credits obtained for the certificate is 12, where laboratory credits are counted as half. Courses may be taken two at a time or as a linear sequence of individual offerings. This certificate program can be applied toward a master's degree program, e.g. to Curriculum 368.

**Required courses:**  
CS4558 Network Traffic Analysis  
CS4677 Computer Forensics  
CS4684 Cyber Security Incident Response and Recovery

**CYBER SECURITY ADVERSARIAL TECHNIQUES CERTIFICATE (260 – DL) (261)**

Curriculum 260  
MASL #P471032 (Distance Learning)  
MASL #P155002 (Resident)

**Course Report Date:** Any quarter

**Course Length:** 13 weeks (one quarters)

**Program Description:** Using the foundation established through the Cybersecurity Fundamentals certificate, students enrolled in Cybersecurity Adversarial Techniques graduate certificate, will obtain a detailed understanding of and ability to function in real operational situations in which adversarial techniques are being used. An understanding of overarching principles, computer and network architectural concepts, and exemplar cases will allow students to analyze current and future malware. Students will learn how to use network traffic analysis to extract the characteristics of ongoing attacks and to identify exploitable vulnerabilities. They will learn how to decipher subtle, clandestine host-based attack mechanisms and how these mechanisms are inserted into target systems. They will learn, in detail, how attack and exploitation software mechanisms are built and deployed, including the distributed command and control techniques used to manage large-scale malware networks. Considerable programming and hands-on work with systems and networks will be required.
CYBER SECURITY ADVERSARIAL TECHNIQUES CERTIFICATE (261)

Curriculum 261
MASL# P155002

Course Report Date: Any quarter

Course Length: 13 weeks (one quarter)

Program Description: Using the foundation established through the Cybersecurity Fundamentals certificate, students enrolled in Cybersecurity Adversarial Techniques graduate certificate, will obtain a detailed understanding of and ability to function in real operational situations in which adversarial techniques are being used. An understanding of overarching principles, computer and network architectural concepts, and exemplar cases will allow students to analyze current and future malware. Students will learn how to use network traffic analysis to extract the characteristics of ongoing attacks and to identify exploitable vulnerabilities. They will learn how to decipher subtle, clandestine host-based attack mechanisms and how these mechanisms are inserted into target systems. They will learn, in detail, how attack and exploitation software mechanisms are built and deployed, including the distributed command and control techniques used to manage large-scale malware networks. Considerable programming and hands-on work with systems and networks will be required.

HUMAN SYSTEMS INTEGRATION (HSI) CERTIFICATE (262)

Curriculum 262
MASL #P471016 (Distance Learning)

Course Start: September (only)

Course Length: 52 weeks (4 quarters)

Program Description: Human Systems Integration (HSI) acknowledges that the human is a critical component in any complex system. It is an interdisciplinary approach that makes explicit the underlying tradeoffs across the HSI domains, facilitating optimization of total system performance in both non-materiel and materiel solutions to address the capability needs of organizations.

The Human Systems Integration (HSI) Certificate program is a distributed learning, graduate-level, non-degree program designed to enable acquisition professionals, program managers, engineers and scientists of the DOD and other Federal agencies to effectively implement Human Systems Integration (HSI) in the acquisition of technological systems.

Students will learn about the domains of HSI; the manner in which HSI is implemented in the acquisition process; and, the tools, techniques, approaches, and methods employed by HSI practitioners. Additional topics include the fundamentals of usability assessments, modeling, optimization, and decision making to demonstrate cost-benefit tradeoffs for technical, cost, and schedule modifications in systems acquisition.

The program consists of four online courses taken over a 12 month period. The course content and projects address problems of interest to the DOD and other Federal agencies. Students wishing to pursue a Master’s Degree in HSI can apply the credits gained in this certificate program to that degree.

Quotas: Limited to 30 students per year

Course Pre-requisites:
A baccalaureate degree is required. Other requirements include Completion of two or more pre-calculus classes with B or better average; an academic profile code (APC) of 345; completion of DAU ACQ 101 and 201A. Waivers may be considered.
In the role of Information Systems Security Engineering (ISSE), the ISSE provides the knowledge and analytical skills required to contribute productively in system developments and assist in building a larger cadre of skilled ISSEs to combat adversaries.
Systems Analysis Certificate (SA) (281)

Curriculum 281
MASL# P471216 (Distance Learning)

Course Start: March/September

Course Length: 52 weeks (4 quarters)

Program Description: The Systems Analysis Certificate program is a distributed learning, graduate-level, non-degree program designed to meet the needs of the Navy and other services in the Department of Defense (DoD) for non-degree 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.
COST ESTIMATING AND ANALYSIS CERTIFICATE (DL) (289)

Curriculum 289  
MASL# P471024 (Distance Learning)

Program Start: Any quarter

Course Length: 52 weeks (4 quarters)

Program Description: The Cost Estimating and Analysis certificate program is a distance learning, graduate-level, non-degree program designed to provide cost estimating and analysis training to Navy and other DoD personnel. The program consists of four courses delivered one per quarter via distance learning over a one-year period. The DL course sections are delivered via video teleconferencing (VTC) equipment or using desktop-to-desktop Collaborative environment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met. Laboratories are computer based. The goal is to have the same learning environment for resident and non-resident students.

Requirements for Entry: A baccalaureate degree is required. Recent completion (within five years) of mathematics through single variable differential and integral calculus is considered minimal preparation. Prior coursework in probability and statistics, including regression is essential for successful completion of the certificate. An Academic profile code (APC) of 335 is required.

The program is open to military officers in the rank equivalent grade of O1 through O5 (U.S. services), and qualified foreign military officers. DoD employees and foreign civilians in defense or security-related positions are also eligible. Must be able to access a Video-Teleconference (VTC) site on Wednesdays, 1100-1400 U.S. Pacific time. Access to “virtual VTC” application known as JABBER required.

Graduate Certificate Requirements: Requirements for the graduate level certificate in Cost Estimating and Analysis are met by successful completion of all four required courses:

- OS3006 Operations research for Cost Analysis
- OS3701 Cost Estimation I: Methods and Techniques
- OS4012 Cost Estimation III: Risk and Uncertainty Analysis

Quotas: 20
MASTER OF COST ESTIMATING AND ANALYSIS (MCEA) (379)

Curriculum 379
MASL# P170019 (Resident)
    # P471119 (Distance Learning)

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Course Start: March

Course Length: 104 weeks (8 quarters)

Program Description: The Master of Cost Estimating and Analysis (CEA) is a 24-month, distance learning graduate degree program designed to increase the accuracy and proficiency of DOD cost estimates and cost estimators. The end result is a professional degree awarded for completing a curriculum focused on the practice of the profession rather than the more general arts or sciences behind the profession. Students will learn cost estimating techniques commonly used in both DOD and industry, acquire foundation skills and hands-on experience in all aspects of cost estimation, including shipbuilding, aircraft, software, and many other areas. Students take two courses per quarter for eight quarters, beginning the last week of March in every year.

Case studies and a capstone project will complete the program. This program blends web-based, online instruction, with video tele-education (VTE), and is especially tailored to students whose careers will not allow them to get away for a full-time graduate education program. While web-based courses are paced week-to-week by the instructors, students have the flexibility to do their coursework at times of their choosing during each week. The VTE classes meet at a pre-determined time, once per week for three hours during the workday.

The MCEA degree is fully accredited and taught by NPS faculty. 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.

Quotas: Distance Learning is limited to 30 students per year

Course Pre-requisites
Baccalaureate Degree (BA or BS)
Completion of integral calculus
GPA of 2.6 or better
Written Participation Agreement
Video-Tele-Education or Video Conference (VTE/VTC) location
Curriculum 359  
MASL# P471107 (Distance Learning)

Course Start: September

Course Length: 104 weeks (8 quarters)

Program Description: Human Systems Integration (HSI) is an interdisciplinary program that emphasizes human considerations as a priority in systems design and acquisition, to reduce life cycle costs, and improve total system performance. HSI has been divided into several distinct domains that include human factors engineering, manpower, personnel, training, human survivability, health hazards, system safety, and habitability. HSI is based on the understanding that people (operators, maintainers, and support personnel) are critical elements of the system and that a human-centered design perspective promotes system effectiveness, safety, and cost savings. This degree will provide students with the knowledge, skills, and abilities to be effective leaders in the assessment, design, testing, and management of a total human machine system throughout its life cycle.

Quotas: Limited to one cohort of 35 students per year

Course Pre-requisites:
A baccalaureate degree with above-average grades is required. Students without these quantitative prerequisites will be accepted in cases where their undergraduate records indicate that they are exceptional students and there are other indicators of potential. An academic profile code (APC) of 335 is required for the resident program, and 345 for the distance learning program.
OPERATIONS ANALYSIS (360)

Curriculum 360
MASL# P177714 (MS)

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Curriculum 382
MASL# P179030 (PhD – 3 year program)

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Curriculum 382
MASL# P179536 (PhD – 4 year program)

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Course Length: (MS) 104 weeks (8 quarters); (PhD) 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: Operations Analysis is the development and application of mathematical models, statistical analyses, simulations, analytical reasoning and common sense to the improvement of real-world operations. Practitioners are called upon to advise military and civilian decision makers on the allocation of scarce resources, the selection of new equipment and processes, and the optimal deployment of given resources to achieve required missions. The OA curriculum was successfully founded by NPS in 1951 in order to retain, develop, and promulgate the methods that were used so successfully in World War II. Mathematics, probabilities, statistics, human factors, and optimization supply the theoretical background for analyzing alternative choices in tactical and strategic warfare, and in planning, budgeting, and procurement of systems and forces. The student learns the computational methods and develops skills to identify relevant information, formulate decision criteria and select alternatives. This education enhances performance in all duties throughout a military career including operational billets, technical management assignments and policy making positions.
OPERATIONS RESEARCH – LOGISTICS ANALYSIS (361)

Curriculum 361
MASL# P179918 (MS)

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Course Length: 91 weeks (7 quarters)

Program Description: This program provides education in mathematics, probability and statistics, physical science, economics, logistics and computer science. These disciplines supply the theoretical background for planning information, generating decision criteria and selecting alternatives. This education enhances performance in all duties throughout a military career, including operational billets, technical management assignments, and policy making positions. (Complimentary curriculum to Curriculum 360, Operations Analysis)

MASTER OF SYSTEMS ANALYSIS (MSA) (DL) (363)

Curriculum 363
MASL# P471207 (Distance Learning)

Course Start: March/September

Course Length: 104 weeks (8 quarters)

Program Description: The Master of Systems Analysis (MSA) program is a distributed learning, graduate degree program, designed to meet the needs of the Navy, other services in the Department of Defense (DoD) and international partners 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 blended mix of distance learning methods. Students take two courses a quarter for eight consecutive quarters with one course delivered asynchronously using web-based instruction (ONLINE) and one course delivered synchronously. 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 synchronous classes meet at a scheduled time, once per week, usually 0800-1100 Pacific Time (GMT+8). Synchronous classes will use web-based conferencing.

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.
COMPUTER SCIENCE (368)

Curriculum 368
MASL# P177713 (MS)

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Curriculum # 384
MASL# P179173 (PhD – 3 year program)

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Curriculum # 384
MASL# P179542 (PhD – 4 year program)

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Course Length: (MS) 9 quarters with refresher; (PhD) 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: The Computer Science curriculum is designed to provide the officer with the technical knowledge and skills necessary to specify, evaluate and manage computer system design; to provide technical guidance in applications ranging from data processing to tactical embedded systems; to educate the officer in the analysis and design methodologies appropriate for hardware, software and firmware; and to provide the officer with practical experience in applying modern computer equipment and research techniques to solve military problems. The principles presented in the curriculum have two layers: computing mechanics deals with the workings of computations, communications, computers, and memories; and computing design deals with the ways of organizing software systems for simplicity, reliability, performance, security, and value.

The curriculum also provides for concrete experience in computing practices—the skills and ways of thinking that mark a computing professional. These include programming, engineering of systems, modeling, and innovating. A unique course offering called Technology, Innovation, and Leadership teaches the practices and discipline of innovation.

The two dimensions—computing principles and practices—define the space in which the core technologies of computing exist and serve application domains: algorithms, architecture, artificial intelligence, database, networking, operating systems, security, and more.

Specialization Track Options. Track Core Requirement courses will be determined by the selection of one of the following specialization track options.

- Information Security and Assurance - provides knowledge in all areas of Information Security (INFOSEC) and develops the necessary skills for those who will be involved in development, evolution, or implementation of secure computer systems.
- Network and Mobile Systems - provides fundamental and advanced knowledge in network architecture and system software for real-time and multicomputer systems and in the rapidly growing areas of wireless networking, mobile devices, and related topics, including mobile computing and wireless security.
- Autonomous Systems - provides an understanding of artificial intelligence and human factors techniques for creating highly capable software agents that interact effectively with human users.
• Software Engineering and Architecture - provides knowledge of all aspects of software development and develops skills needed to efficiently and reliably implement military systems and application software using the best available tools and techniques.
• Cyber Systems and Operations – provides knowledge in all areas of security provisions, information assurance and situational awareness for computer systems, networks and ICS, and their integration with Defensive Cyber Operations, Offensive Cyber Operations, and DoD Global Information Grid Operations.
• CS-MOVES Option - Students interested in an MSCS degree with a focus on modeling, simulation, and virtual environments may choose the CS-MOVES Option as their track. Specialization sequence course work will be coordinated by the student working with his/her MOVES thesis advisor, and must be approved as part of the thesis proposal.

INFORMATION SYSTEMS AND TECHNOLOGY (370)

Curriculum 370 (MS)
MASL# P179904

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Course Length: 104 weeks (8 quarters)

Program Description: This curriculum provides officers with the knowledge of information systems technology to include computer and telecommunications systems, software engineering, networked and distributed applications, database management systems and decision support systems in military services. Students will also gain proficiency in information systems, economics and management necessary for the critical management decisions needed in the development and utilization of complex and evolving computer-based military systems. Information Systems Technology is an interdisciplinary, graduate-level master’s program integrating mathematics, accounting, statistics, computer science, information systems, communications engineering, networks and management discipline.

Effective FY2024: Specialization Track Options.
Track Core Requirement courses will be determined by the selection of the following specialization track option.

• Network Operations and Technology (NWOT) (formerly known as Curriculum 386 – MASL P179617)
The NWOT program is designed to provide the broad base of knowledge needed to assist in fighting and winning America’s wars in today’s networked environment. The curriculum consists of a professional practice core of courses and specialization tracks of study in Information Domain Operations and Information Systems Management. The academic core consists of web services, network operations, enterprise strategies and policy, and managing process change. The specialization tracks are designed to provide students and opportunity to explore specific areas of interest to the Navy.
MODELING, VIRTUAL ENVIRONMENTS AND SIMULATION (MOVES) (399)

Curriculum 399
MASL# P179067 (MS)

2024
Course Report: 23 Jun 24
Course Convene: 08 Jul 24
Course Complete: 12 Jun 26

2025
Course Report: 22 Jun 25
Course Convene: 07 Jul 25
Course Complete: 11 Jun 27

Curriculum 398
MASL# P179068 (PhD – 3 year program)

2024
Course Report: 23 Jun 24
Course Convene: 08 Jul 24
Course Complete: 11 Jun 27

2025
Course Report: 22 Jun 25
Course Convene: 07 Jul 25
Course Complete: 16 Jun 28

Curriculum 398
MASL# P179537 (PhD – 4 year program)

2024
Course Report: 23 Jun 24
Course Convene: 08 Jul 24
Course Complete: 16 Jun 28

2025
Course Report: 22 Jun 25
Course Convene: 07 Jul 25
Course Complete: 15 Jun 29

Course Length: (MS) 104 weeks (8 quarters); (PhD) 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: The MOVES Curriculum was developed in response for an interdisciplinary graduate education program beyond that available through the Computer Science Curriculum's Computer Graphics and Visual Simulation track. The MOVES Curriculum of the Naval Postgraduate School provides the M.S. and Ph.D. student both fundamental and specialized courses in applied computer simulation technology and the application of quantitative analyses to human-computer interaction in simulation technology. The M.S. program is a two year, eight quarter program whose core covers the fundamentals of computer science, visual simulation and human-computer interaction. Specific topics include object-oriented programming, artificial intelligence, software methodology, computer communications and networks, computer graphics, virtual worlds and simulation systems, physically based modeling, probability, statistics, stochastic modeling, data analysis, and human performance evaluation.

Specialization by the M.S. student is accomplished by choosing a track and completing a sequence of courses providing depth in the selected area. There are two tracks that support the curriculum's research efforts, the Visual Simulation Track and the Human-Computer Interaction Track.

Once the MOVES Curriculum core courses have been taken and while the specialization courses are underway, the final step in the M.S. degree program is the completion of a written thesis. This thesis is usually conducted on a research problem specified by a thesis advisor attached to a MOVES-associated laboratory. Current laboratories working with the MOVES Curriculum are the NPSNET Research Group, a leading developer of networked, large-scale virtual environments, and the Information Infrastructure Research Group (IIRG), whose focus is on advanced network issues such as asynchronous transfer mode (ATM), multicast backbone (MBONE) and internetworking regional research institutions.
INFORMATION SCIENCES PhD (474)

Curriculum 474
MASL# P176007 (PhD – 3 year program)

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 19 Mar 27  11 Jun 27  17 Sep 27  10 Dec 27

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 24 Mar 28  16 Jun 28  15 Sep 28  15 Dec 28

Curriculum 474
MASL# P176008 (PhD – 4 year program)

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 24 Mar 28  16 Jun 28  15 Sep 28  15 Dec 28

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 24 Mar 29  15 Jun 29  21 Sep 29  14 Dec 29

Course Length: 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: The Department of Information Sciences at the Naval Postgraduate School will award the Doctor of Philosophy in Information Sciences degree as a result of meritorious and scholarly achievement in a particular field of information sciences (IS). This program includes course work, scholarly socialization, written and oral examinations, research, and a written dissertation. A candidate must exhibit scholarly application to the entire course of study, achieve a high level of scientific advancement, and establish ability for original investigation leading to the advancement of fundamental knowledge.

IS broadly encompasses the design, implementation, use, promotion and evaluation of organizations, processes and systems associated with knowledge, information, data and communication. It includes areas of concentration in information systems, information technology, information warfare, information operations, and command and control. The study of IS is multidisciplinary, and no single theory or perspective dominates the field. In general, the field can be divided into technical and behavioral approaches. The technical approach to IS emphasizes mathematically based, normative models to study capabilities of systems and processes, in addition to emphasis on the technological artifacts that enable and support organizations, processes and systems associated with knowledge, information, data and communication. The behavioral approach to IS emphasizes behavioral problems associated with design, implementation, use, promotion and evaluation of organizations, processes and systems associated with knowledge, information, data and communication. A great part of IS research involves integrating these two, complementary approaches.

The Ph.D. in Information Sciences prepares scholars to conduct original research that contributes new knowledge in the domain of information systems, information technology, information warfare, information operations, or command and control. With such ability to conduct original research and contribute new knowledge, the IS Ph.D. helps to prepare scholars also to teach effectively.
INFORMATION WARFARE SYSTEMS ENGINEERING (INTERNATIONAL) (MS) (595)

Curriculum 595 (MS)
MASL# P179222

**2024**  
Course Report: 23 Jun 24  
Course Convene: 08 Jul 24  
Course Complete: 12 Jun 26

**2025**  
Course Report: 22 Jun 25  
Course Convene: 07 Jul 25  
Course Complete: 18 Jun 27

**Course Length:** 104 weeks (8 quarters)

**Program Description:** This course of study is appropriate for military officers who require a fundamental understanding of Information Warfare and Information Operations. Courses in the curriculum discuss the role of Information Warfare in modern warfare and the integral roles of EW, psychological operations, military deception, OPSEC, physical destruction, INFOSEC, and network attack. Mathematics, Science and Engineering fundamentals are provided to support the theoretical and experimental aspects of Information Warfare. System level understanding of Communication Systems, Electronic Warfare Systems, Radar Systems, Network Operations, Computer Network Security and Information Systems are emphasized. The System Engineering process is presented and applied in an Information Warfare team project.

APPLIED DESIGN FOR INNOVATION (697)

Curriculum 697 (MS)
MASL# P179933

**2024**  
Course Report: 17 Mar 24  
Course Convene: 01 Apr 24  
Course Complete: 26 Sep 25

**2025**  
Course Report: 16 Mar 25  
Course Convene: 31 Mar 25  
Course Complete: 25 Sep 26

**Course Length:** 78 weeks (6 quarters)

**Program Description:** This curriculum provides students with experiential learning around the challenges of innovation in order to tackle the problems posed by the future operating environment. Students will use a blend of design-thinking and analytic social science methods to engage in the problem-framing, ideation, creative collaboration, and stakeholder engagement necessary for successful innovation of either technology, new concepts of operations, or organizational structures. This curriculum is designed to meet the changing needs of military operators in the context of rapidly changing technology and Strategic Competition.
INFORMATION STRATEGY AND POLITICAL WARFARE (698)

Curriculum 698 (MS)
MASL# P179042

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Course Complete: 26 Sep 25 19 Dec 25 27 Mar 26 18 Jun 26

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Course Convene: 31 Mar 25 07 Jul 25 29 Sep 25 29 Dec 25
Course Complete: 25 Sep 26 18 Dec 26 26 Mar 27 18 Jun 27

Course Length: 78 weeks (6 quarters)

Program Description: Graduates will be able to develop information strategies to support military action by taking advantage of information technology, exploiting the growing worldwide dependence on automated information systems, and capitalizing on the near real-time global dissemination of information to affect an adversary's decision cycles—all with the goal of achieving information superiority. The curriculum includes a core of military art and operations, the human dimension of warfare emphasizing psychological warfare and military deception, analytical methods, and a technical sequence customized for each student that may include concentrations in cyber systems and operations, electronic warfare, and computer network operations.

SPECIAL OPERATIONS / IRREGULAR WARFARE (699)

Curriculum 699 (MS)
MASL# P173200

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Course Complete: 25 Sep 26 18 Dec 26 26 Mar 27 18 Jun 27

Course Length: 78 weeks (6 quarters)

Program Description: The Special Operations Curriculum is designed to provide a focused course of study on irregular warfare and gray zone activities against both State and non-State actors and how those adversaries prosecute irregular warfare against the US and its allies. Graduates of this curriculum will possess a detailed knowledge of the broad range of factors involved in the planning and conduct of these forms of conflict, along with a detailed understanding of the role of special operations in foreign and defense policy. The curriculum examines the sources and dynamics of inter-state and intra-state conflict, the challenge that irregular conflict and asymmetric approaches have posed and will increasingly pose for security planning, the doctrinal and institutional evolution of the special operations community, the 20th Century history of political violence (e.g., Latin America and Asia) as well the US’ recent involvement in the Middle East, the history of irregular warfare, and contemporary perspectives on conflict resolution. These curriculum specific requirements are supported by a larger program of study which provides the graduate with a broad background in the areas of international relations, deterrence, comparative strategy, emerging technologies, and advanced analytical methods.
DEPARTMENT OF ENGINEERING AND APPLIES SCIENCES (ENG & ASCI) PROGRAMS
ROBOTICS ENGINEERING CERTIFICATE (DL) (223)

Curriculum 223
MASL# P471117 (Distance Learning)

Program Start: June

Course Length: 52 weeks (4 quarters)

Program Description: This highly-relevant, four-course online program helps DoD professionals advance their careers and become leaders in the emerging fields of unmanned vehicles (UxVs), robotics, and autonomous systems. The Robotics Engineering graduate certificate provides:

- Technical concepts and skills necessary to understand, design, and operate robotic systems.
- Faculty-led instruction plus hands-on (lab and collaborative) activities.
- Flexible and self-paced learning experiences.
- Challenging opportunities to apply knowledge to defense-related problems and contexts.
- Career advancement and an added credential for practicing engineers.

Course Prerequisites:
Baccalaureate degree in engineering or closely related field.
Experience with computer programming.
Curriculum 273  
MASL# P471213 (Distance Learning)

Course Start: March / September

Course Length: 52 weeks (4 quarters)

Program Description: The Space Systems Certificate program comprises of four courses (SS3011, PH3052, SS3610 and PH2514). Upon successful completion of the course work, students will be awarded a certificate of completion in keeping with standard practices of the Naval Postgraduate School. The Space Systems Certificate program supports Navy, DOD and international partner space educational needs and complements existing resident training by providing cross disciplinary science and technical education. The Space Systems Certificate program is targeted at enhancing the education and preparation for USN and other service 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.

Completion of the Certificate will count toward satisfaction of the Information Professional Advanced Qualification Certification matrix (COMNAVCYBERFORINST 1520.1).

The NPS Space Systems Certificate (SSC) is comprised of the following four courses:
SS3011 Space Technology and Applications
SS3610 Space Communications Systems: Fundamentals and Analysis
PH3052 Physics of Space and Airborne Sensor Systems
PH2514 Physics of the Space Environment

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/hybrid education program that covers fundamental areas of twenty-first century space enhancement to military operations as validated by NETWARCOM. The learning outcomes for the SSC Certificate program directly support the Educational Skill Requirements within the Space Systems Operation degree.

Quotas: Limited to 30 students per year

Course Prerequisites:
A baccalaureate degree with above-average grades and completion of college level algebra, geometry, trigonometry, logarithms and college level Physics (covering electricity and magnetism) with a grade of 'C' or better is required. Knowledge of matlab and Simulink recommended for course SS3610.
ANTI-SUBMARINE WARFARE (ASW) CERTIFICATE PROGRAM (274)

Curriculum 274  
MASL# P170214 (Resident); P471214 (Distance Learning)

Course Start: March only

Course Length: 52 weeks (4 quarters) with a quarter break in fall to provide time to review calculus and/or probability if desired

Program Description: 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 consists of a sequence of four highly technical courses designed to provide our civilian and active duty workforce with a learning experience which extends their general undergraduate education to include the essential concepts, equations, and skill sets needed to understand, design, and use ASW systems. The web-based courses are paced week-to-week by the instructors, but students have the flexibility to do coursework at times of their choosing during each week. The course is four quarters with a one quarter break in the fall to provide time to review calculus and/or probability if desired.

Quotas: Limited to 5-7 students per year

Course Pre-requisites  
Baccalaureate Degree (BA or BS); Written Command Endorsement; Working knowledge of single-variable calculus (MA1113); Probability and statistics.

SYSTEMS ENGINEERING (SE) CERTIFICATE (282) (DL)

Curriculum 282  
MASL# P471021 (Distance Learning)

Course Start: March/September

Course Length: 52 weeks (4 quarters)

Program Description: 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 online 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 Prerequisites:  
Baccalaureate degree with at least a 2.6 undergraduate grade point average (GPA) and at least one college level mathematics course. 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 starts.
GUIDANCE, NAVIGATION AND CONTROL SYSTEMS CERTIFICATE (DL) (284)

Curriculum 284
MASL# P179831 (Resident); P471831 (Distance Learning)

Program Start: Any quarter

Course Length: 52 weeks (4 quarters)

Program Description: This certificate equips students with a technical foundation that prepares them to analyze, design and evaluate guidance, navigation and control systems. The certificate consists of the following courses:

- EC3310 Optimal Estimation: Sensor and Data Association
- EC3320 Optimal Control Systems
- EC4350 Nonlinear Control Systems

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment or using desktop-to-desktop Collaborate environment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met.

Laboratories are computer-based. The goal is to have the same learning experience for resident and non-resident students. All of the individual course prerequisites must be met before enrolling in the course. More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at: https://www.nps.edu/web/ece/nps-ece-distance-learning-program

Quotas: 20

Course Pre-requisites: BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic control systems, circuits, linear systems and Fourier transforms, probability and random variables).
DIGITAL COMMUNICATIONS ENGINEER CERTIFICATE (DL) (287)

Curriculum 287
MASL# P179835 (Resident); P471835 (Distance Learning)

Program Start: Fall

Course Length: 52 weeks (4 quarters)

Program Description: This certificate provides the core knowledge necessary for advanced work in digital communications engineering, including advanced signal analysis, modulation, and forward error correction coding. It includes the study of analysis and design of advanced communications systems via a mixture of instruction and computer-based laboratory experiences. The certificate consists of the following courses:

- EC3500 Analysis of Random Signals
- EC3510 Communications Engineering
- EC4550 Digital Communications
- EC4580 Error Correction Coding

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment or using desktop-to-desktop Collaborate environment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met.

Laboratories are computer-based. The goal is to have the same learning experience for resident and non-resident students. All of the individual course prerequisites must be met before enrolling in the course.

More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at:

https://www.nps.edu/web/ece/nps-ece-distance-learning-program

Quotas: 20

Course Pre-requisites:
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic control systems, circuits, linear systems and Fourier transforms, probability and random variables).
Curriculum 290  
MASL# P179836 (Resident); P471836 (Distance Learning)

**Program Start:** Summer and Fall quarters

**Course Length:** 52 weeks (4 quarters)

**Program Description:** This certificate provides a solid engineering foundation covering concepts needed to analyze and process digital information via a mixture of instruction and computer-based experiments. It exposes participants to current practices and standards, emerging trends and developments integral to modern signal processing (SP) based applications. The certificate consists of the following courses:

- EC3400 Digital Signal Processing
- EC3410 Discrete Time Random Signals
- EC4440 Statistical Digital Signal Processing
- EC SP Specialization course

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment or using desktop-to-desktop Collaborate environment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met.

Laboratories are computer-based. The goal is to have the same learning experience for resident and non-resident students.

All of the individual course prerequisites must be met before enrolling in the course.

More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at:
[https://www.nps.edu/web/ece/nps-ece-distance-learning-program](https://www.nps.edu/web/ece/nps-ece-distance-learning-program)

**Quotas:** 20

**Course Pre-requisites:**
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic control systems, circuits, linear systems and Fourier transforms, probability and random variables).
ELECTRIC SHIPS POWER SYSTEMS CERTIFICATE (DL) (291)

Curriculum 291
MASL# P179837 (Resident); P471837 (Distance Learning)

Program Start: Any quarter

Course Length: 52 weeks (4 quarters)

Program Description: This certificate provides students with a solid engineering foundation in electrical power and electromechanical power conversion at an advanced level with an emphasis on naval shipboard power systems and machinery. The certificate consists of the following courses:

- EC3130 Electrical Machine Theory
- EC4130 Advanced Electrical Machinery Systems
- EC3150 Solid State Power Conversion
- EC4150 Advanced Solid State Power Conversion

All of the individual course prerequisites must be met before enrolling in the course.

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment or desktop to desktop Collaborate environment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met.

Laboratories are computer-based. The goal is to have the same learning experience for resident and non-resident students. More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at:
https://www.nps.edu/web/ece/nps-ece-distance-learning-program

Quotas: 20

Course Pre-requisites:
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic circuits, electronics, linear systems and Fourier transforms),
Curriculum 292  
MASL# P471012 (Distance Learning)  

Program Start: Any Quarter  

Program Length: 52 weeks (4 quarters)  

Program Description: This certificate is the first in a series of three Electronic Warfare certificates that leads to a Master of Engineering in Electrical Engineering, MEng (EE). This certificate consists of three courses:  
- Antennas and Propagation  
- Radio wave Propagation  
- Joint Network Enabled Electronic Warfare I  

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met. Laboratories are also delivered VTC or podcast. The goal is to have the same learning experience for resident and non-resident students.

The courses in this certificate or the other EW certificates need not be taken in order; however, all of the individual course prerequisites must be met before enrolling in the course.

The degree MEng (EE) is awarded upon completion of the three certificates (36 credits with an average GQPR of 3.0).

More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at:  
https://www.nps.edu/web/ece/nps-ece-distance-learning-program

Quotas: 20

Course Prerequisites:  
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic circuits, linear systems and Fourier transforms, probability and statistics, and undergraduate electromagnetic fields and waves).
JOURNEYMAN EW ENGINEER CERTIFICATE (293)

Curriculum 293
MASL# P170013

Program Start: Any quarter

Course Length: 52 weeks (4 quarters)

Program Description: This certificate is the second in a series of three Electronic Warfare certificates that leads to a Master of Engineering in Electrical Engineering, MEng (EE). This certificate consists of three courses:
- Introduction to Electro-optical Engineering
- Radar Systems
- Microwave Engineering

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met. Laboratories are also delivered VTC or podcast. The goal is to have the same learning experience for resident and non-resident students.

The courses in this certificate or the other EW certificates need not be taken in order; however, all of the individual course prerequisites must be met before enrolling in the course.

More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at:
https://www.nps.edu/web/ece/nps-ece-distance-learning-program

Quotas: 20

Course Pre-requisites:
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic circuits, linear systems and Fourier transforms, probability and statistics, and undergraduate electromagnetic fields and waves).
Curriculum 294  
MASL# P471014 (Distance Learning)

**Program Start:** Any Quarter

**Program Length:** 39 weeks (3 quarters)

**Program Description:** This certificate is the third in a series of three Electronic Warfare certificates that leads to a Master of Engineering in Electrical Engineering, MEng (EE). This certificate consists of three courses:

- Radar Cross Section Prediction and Reduction
- Airborne Radar Systems
- Joint Network Enabled Electronic Warfare II

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met. Laboratories are also delivered VTC or podcast. The goal is to have the same learning experience for resident and non-resident students.

The courses in this certificate or the other EW certificates need not be taken in order; however, all of the individual course prerequisites must be met before enrolling in the course.

More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at: [https://www.nps.edu/web/ece/nps-ece-distance-learning-program](https://www.nps.edu/web/ece/nps-ece-distance-learning-program)

**Quotas:** 20

**Course Pre-requisites:**
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic circuits, linear systems and Fourier transforms, probability and statistics, and undergraduate electromagnetic fields and waves).
NETWORK ENGINEERING CERTIFICATE (DL) (295)

Curriculum 295
MASL# P179838 (Resident); P471838 (Distance Learning)

Program Start: March and September

Course Length: 52 weeks (4 quarters)

Program Description: This certificate gives students the technical skills to analyze various network systems at all levels of the TCP/IP stack. The certificate is designed to give students a solid understanding of network architecture and design, network layer protocols, local area and wide area networks including Ethernet and WiFi and advanced telecommunications networks. The certificate consists of the following courses:

- EC3710 Computer Communications Methods
- EC4725 Advanced Telecommunications Systems Engineering
- EC4745 Mobile Ad Hoc Wireless Networking
- EC4785 Internet Engineering

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via video teleconferencing (VTC) equipment or using desktop-to-desktop Collaborate environment, synchronously with our on-campus sections. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met. Some labs are computer based. Laboratories are also delivered VTC or podcast. The goal is to have the same learning experience for resident and non-resident students.

All of the individual course prerequisites must be met before enrolling in the course.

More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at:
https://www.nps.edu/web/ece/nps-ece-distance-learning-program

Quotas: 20

Course Pre-requisites:
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic control systems, circuits, linear systems and Fourier transforms, probability and random variables).
CYBER SYSTEMS CERTIFICATE (296)

Curriculum 296
MASL# P179839 (Resident)

Program Start: September

Course Length: 52 weeks (4 quarters)

Program Description: This certificate provides students with a technical foundation in the management of wired and wireless cyber systems. Courses focus on vulnerability assessment and risk of cyberphysical systems, reverse engineering and cybersecurity. The certificate consists of the following courses:

- EC3730 Cyber Network and Physical Infrastructures
- EC374
- EC512 Principles in Reverse Engineering
- EC4770 Wireless Communications Network Security

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met. Laboratories are delivered via video teleconferencing (VTC) or podcast. In some cases lab equipment may be sent out to students to be returned at course completion.

All of the individual course prerequisites must be met before enrolling in the course.

Quotas: 20

Course Pre-requisites:
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic circuits, linear systems and Fourier transforms, probability and statistics, and undergraduate electromagnetic fields and waves).
SYSTEMS ENGINEERING AND ANALYSIS (308)

Curriculum 308 (MS)
MASL# P174015

Course Length: 104 weeks (8 quarters)

Program Description: This curriculum is designed for combat officers, and will enable the student to exploit emerging technologies to achieve war-fighting advantages. The students will blend their operational experience with a thorough technical education to expeditiously integrate new technological capabilities into operational applications. The officer will be able to evolve current tactics and doctrine to expeditiously leverage imminent technological advances. This war-fighting oriented program provides a solid understanding of the principles and applications of systems engineering, and employs these principles to gain insight into operational problems. This program includes a core of courses, in fields of modeling, simulation, weapons, and sensors that will enhance understanding and analysis of selected case studies and weapons systems. The program is designed as a highly integrated graduate education experience. There will be lectures, team projects, and individual research as well as seminars from visiting experts. Each arriving officer is evaluated for existing knowledge, skills and competencies and an individual course of study developed.

SYSTEMS ENGINEERING (DL) (311)

Curriculum 311
MASL# P471020 (Distance Learning)

Course Length: 104 weeks (8 quarters)

Program Description: The Master of Science in Systems Engineering DL degree program is designed for DoD and international partner 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 online 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. Students must participate in a capstone design project in lieu of writing a thesis. Students receive a NPS degree and, may receive NPS Systems Engineering certificates of accomplishment.
SYSTEMS ENGINEERING (311) (CONTINUED)

The program manager will help establish partnership arrangements with other organizations if desired. Additional information on the program can be found at http://www.nps.edu/Academics/DL/DLPrograms/Programs/degProgs_SE_nonRes.html.

**Quotas: Limited to 30 students per year**

**Course Pre-requisites:**
An entering student must possess a Bachelor of Science degree in an engineering or related discipline with at least a 2.2 6 undergraduate grade point average including a college calculus sequence (one year of undergraduate courses – two semesters or three quarters).

AVIATION SYSTEMS ENGINEERING PROGRAM (DL) (312)

**Curriculum 312**
MASL# P471006 (Distance Learning)

**Course Start:** March and September

**Course Length:** 104 weeks (8 quarters)

**Program Description:** The objective of this program is to provide graduates of the U.S. Naval Test Pilot School (USNTPS) the opportunity to obtain a Master of Science in Systems Engineering (provided they hold an ABET undergraduate engineering degree, or can establish equivalency) or Master of Science in Engineering Systems (all others) with an Aviation Systems specialization. The program is delivered by distance learning and builds upon the USNTPS academic and flight test instruction, with the student's USNTPS final flight test project and report (DTII) serving in lieu of a thesis, and will provide the advanced systems engineering knowledge, tools and skills necessary for the graduate to be successful as an aviation systems engineer in an acquisition program office or aviation engineering and support activity.

**Course Pre-requisites:**
Baccalaureate Degree in Engineering or a related science or technology field GPA of 2.2 or better
Successful completion of a calculus course
Graduate of the U.S. Naval Test Pilot School (USNTPS)
Curriculum 566 (MS)  
MASL# P179910

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Course Length: 91 weeks (7 quarters) or 8 quarters with the Refresher (+ Curriculum 460)

Program Description: A course of study modeled after Curriculum 366, Space Systems Operations, is available for international students. The Space Systems Operations curriculum is designed to provide officers with an appreciation for military opportunities and applications in space, comprehensive, practical as well as theoretical knowledge of the operation, tasking and employment of space surveillance, communications, navigation and atmospheric/oceanographic/environmental sensing systems and knowledge of payload design and integration.

Effective FY2024: Specialization Track Options.
Track Core Requirement courses will be determined by the selection of the following specialization track options.

- **Space Systems Operations**
  The Space Systems Operations curriculum is designed to provide officers with knowledge of military opportunities and applications in space. Students are provided instruction about the operation, tasking and employment of space surveillance, communications, navigation and atmospheric/oceanographic/environmental sensing systems as well as payload design and integration - specifically for the exploitation of Space and Information products.

- **Space Systems Engineering**
  The Space Systems Engineering program provides officers, through graduate education, with a comprehensive scientific and technical knowledge of military and Navy space systems. This curriculum is designed to equip officers with the theoretical and practical skills required to design and integrate military space payloads with other spacecraft subsystems. Graduates will be prepared by their education to design, develop and manage the acquisition of space communications, navigation, surveillance, electronic warfare and environmental sensing systems.
**METEOROLOGY AND OCEANOGRAPHY (METOC) (373)**

Curriculum 373 (MS)
MASL# P174235 (MS)

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Curriculum 378
MASL# P179176 (PhD – 3 year program)

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Curriculum 387
MASL# P179543 (PhD – 4 year program)

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Course Length: (MS) 130 weeks (10 quarters); (PhD) 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: This curriculum in meteorology and oceanography involves approximately 120-quarter hours of classroom lectures, supplemented by an additional 35-quarter hours of laboratory exercises. This program is designed to provide the student with: 1) A thorough understanding of the principles governing the physical and dynamic properties of the oceans and atmosphere; 2) The ability to observe, assimilate, analyze, interpret, and predict oceanic and atmospheric parameters and conditions using field experimentation, direct and remote sensing observational techniques, statistical analyses and numerical models; 3) A thorough understanding of the effects of oceanic and atmospheric properties and conditions on weapon, sensor and platform performance while conducting and supporting Naval warfare with particular emphasis on ocean acoustics and electromagnetic/optical propagation; 4) An oceanographic or meteorological research experience germane to Naval warfare culminating in a thesis of professional quality; 5) A knowledge of Joint and Maritime Strategic Planning. This education will enhance performance in all duties throughout a career, including operational billets, technical management assignments and policy making positions. Students will develop graduate-level technical ability based upon scientific principles, acquire diverse professional knowledge and develop analytical ability for practical problem solving.

Effective FY2024: Specialization Track Options.
Track Core Requirement courses will be determined by the selection of the following specialization track options.

- **Meteorology**
  This curriculum will provide qualified personnel with a sound understanding of the science of meteorology. The student will develop the technical expertise to assess and forecast the impact of atmospheric conditions on operations: 1) To understand the science of meteorological data and models. 2) To sample/measure, analyze and predict atmospheric conditions. 3) To operate and control data/information management systems. 4) To plan, conduct, interpret and present results of research activities. This 7 quarter course includes a refresher quarter. If a refresher quarter is not necessary then the course would only be 6 quarters beginning in the winter/summer.

- **Oceanography**
  The Oceanography Curriculum provides students with a sound understanding of the science of oceanography. The student develops the technical expertise to provide and use oceanographic and acoustical data and models in
support of all aspects of at-sea operations. The graduate will be able to: 1) Interpret and predict oceanic and air-ocean interface conditions. 2) Operate modern oceanographic data management, archival and communications systems. 3) Plan, conduct, interpret and present results of research activities. This education further enhances performance in operational billets, technical management assignments and policy making positions. Students will develop a sound, graduate-level, technical ability based on scientific principles.

- **Operational Oceanography**
  This flexible oceanography curriculum involves approximately 100 quarter-hours of classroom lectures, supplemented by an additional 20 quarter-hours of laboratory exercises. This program is designed to provide the student with: 1) A thorough understanding of the principles governing the physical and dynamic properties of the oceans. 2) An understanding of the analysis and prediction of oceanic and atmospheric parameters and conditions using direct and remote sensing observational techniques, statistical analyses, and numerical models. 3) An understanding of the effects of oceanic and atmospheric properties and conditions on weapon, sensor, and platform performance, while conducting and supporting naval warfare with particular emphasis on ocean acoustics. 4) An educationally significant oceanographic experience at sea. 5) An oceanographic research experience germane to naval warfare culminating in a thesis of professional quality. 6) A knowledge of Joint Maritime Strategic Planning. 7) Thesis with multi-authors is not allowed.

This curriculum is designed to allow the student to meet all of the requirements for Navy PME (as established by the Chief of Naval Operations) and for Joint PME (as established by the Chairman, Joint Chiefs of Staff) for Intermediate Level Professional Military Education. The Operational Oceanography Curriculum has a physical oceanography and ocean acoustics base. It is a very flexible program allowing students to examine oceanographic topics relevant to their warfare specialization areas, such as antisubmarine warfare, amphibious warfare, mine warfare, anti-air warfare, strike warfare and special warfare.

### APPLIED MATHEMATICS (380)

**Curriculum 380 (MS)**  
MASL# P179115

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**Course Length:** 104 weeks (8 quarters)

**Program Description:** This program is designed to meet the needs of the Department of Defense for graduates who are skilled in applying concepts of higher mathematics. The objective of the program is to equip an officer with the skill to analyze a military problem, formulate it in mathematical terms, solve or approximate a solution, and interpret and present the results.

The value of graduate education in mathematics lies in the vast breadth of its applicability. The officer with advanced education in mathematics possesses skills in problem solving, modeling, abstraction, optimization, and analysis that are sufficiently general that they apply in many arenas and never lose their currency in the face of changing technology and yet-to-be-identified needs. Graduate education in mathematics is a career-long enabler. Students in the Applied Mathematics curriculum will receive a solid mathematical foundation as they transition into graduate curricula emphasizing relevant and modern advanced mathematical techniques. Students will be encouraged to develop and utilize skills in analysis, reasoning, creativity, and exposition as they acquire knowledge of mathematics and its applications.
APPLIED MATHEMATICS (380) (CONTINUED)

The officer will complete courses in the following fundamental areas of Mathematics, developing sufficient mastery to qualify for teaching Mathematics at the undergraduate level: Single, Multivariate, and Vector Calculus; Linear Algebra and Algebraic Structures; Logic and Discrete Mathematics; Real and Complex Analysis; Modern Applied Algebra and Number Theory; Numerical Analysis; Mathematical Modeling in Applied Mathematics; Ordinary and Partial Differential Equations.

OCEANOGRAPHY (440)

Curriculum 443
MASL# P174012 (PhD – 3 year program)

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Curriculum 443
MASL# P174021 (PhD – 4 year program)

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Program Description: The Oceanography Curriculum provides students with a sound understanding of the science of oceanography. The student develops the technical expertise to provide and use oceanographic and acoustical data and models in support of all aspects of at-sea operations. The graduate will be able to: 1) Interpret and predict oceanic and air-ocean interface conditions. 2) Operate modern oceanographic data management, archival and communications systems. 3) Plan, conduct, interpret and present results of research activities. This education further enhances performance in operational billets, technical management assignments and policy making positions. Students will develop a sound, graduate-level, technical ability based on scientific principles.
Curriculum 522
MASL# P170044

2024
Course Report:  23 Jun 24   29 Dec 24
Course Convene:  08 Jul 24   30 Dec 24
Course Complete:  19 Dec 25   18 Jun 26

2025
Course Report:  22 Jun 25   28 Dec 25
Course Convene:  07 Jul 25   29 Dec 25
Course Complete:  18 Dec 26   18 Jun 27

Course Length: 78 weeks (6 quarters)

Program Description: The Systems Engineering Management program is an interdisciplinary program combining systems engineering with acquisition management knowledge and skills. The program is intended to broaden the technical capabilities of officers who may have non-technical backgrounds so they are able to manage and lead acquisition programs for the complex combat systems the DoD needs. Students in this program learn the systems engineering process from establishing system requirements through test and evaluation. Simultaneously students learn how to manage, schedule, and budget programs as well as work with DoD suppliers through contracts to meet program obligations.
UNDERSEA WARFARE (525)

Curriculum 525  
(MS) MASL# P179911

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Course Length: 104 weeks (8 quarters)

Program Description: The Undersea Warfare Curriculum educates officers in the engineering fundamentals, physical principles and analytical concepts that govern operational employment of undersea warfare (USW) sensors and weapons. This interdisciplinary program combines core classes in USW with a specialization in one of seven fields. Depending on their academic background and choice of specialization, students may pursue a Master of Science degree in either: Engineering Acoustics, Physical Oceanography, Electrical Engineering, Mechanical Engineering, Applied Mathematics, Applied Physics, or Operations Research. The officer will also conduct thesis research on a technical problem relevant to USW.
COMBAT SYSTEMS APPLIED PHYSICS (533)

Curriculum 533
MASL# P179906 (MS)

2024
Course Report: 23 Jun 24  29 Dec 24
Course Convene: 08 Jul 24  30 Dec 24
Course Complete: 12 Jun 26  18 Dec 26

2025
Course Report: 22 Jun 25  28 Dec 25
Course Convene: 07 Jul 25  29 Dec 25
Course Complete: 11 Jun 27  18 Dec 27

Curriculum 536 (Engineering Acoustics)
MASL# P179170 (PhD – 3 year program)

2024
Course Report: 23 Jun 24  29 Dec 24
Course Convene: 08 Jul 24  30 Dec 24
Course Complete: 11 Jun 27  10 Dec 27

2025
Course Report: 22 Jun 25  28 Dec 25
Course Convene: 07 Jul 25  29 Dec 25
Course Complete: 16 Jun 28  15 Dec 28

Curriculum 536 (Engineering Acoustics)
MASL# P179541 (PhD – 4 year program)

2024
Course Report: 23 Jun 24  29 Dec 24
Course Convene: 08 Jul 24  30 Dec 24
Course Complete: 16 Jun 28  15 Dec 28

2025
Course Report: 22 Jun 25  28 Dec 25
Course Convene: 07 Jul 25  29 Dec 25
Course Complete: 15 Jun 29  14 Dec 29

Course Length: (MS) 104 weeks (8 quarters); (PhD) 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: This program is designed to meet the needs of the military services for an officer having a broad-based advanced technical education applicable to combat systems design, development, test and evaluation, acquisition, operation, and support. Students typically earn a degree in Applied Physics, or Engineering Acoustics; a degree in Combat Systems Technology is also available. Included in the core of the program are courses on electromagnetic radiation, signal processing, optoelectronics, explosives and warheads, fluid dynamics of weapons, combat simulation, quantum devices, detection and engagement sensors, combat systems integration, and computing resources for advanced combat systems. Additionally, the officer will take a sequence of four or more courses in one of the following concentration areas: electromagnetic sensors, weapons and effects, underwater acoustic systems, total ships systems engineering, or an engineering area related to combat systems. The officer will also conduct thesis research on a military relevant technical problem.
MASTERS IN SCIENCE IN ENGINEERING ACOUSTICS OR MASTER OF ENGINEERING ACOUSTICS (DL) (535)

Curriculum 535 (MS)
MASL# P471017 (Distance Learning)

Course Start: Offered every other year, next available is June 2025.

Course Length: 117 weeks (9 quarters)

Program Description: The Underwater Acoustic Systems curriculum is currently available to Distance Learning students and leads to either a Master of Science in Engineering Acoustics or a Master of Engineering Acoustics depending on whether the student completes a thesis. Students typically take one course per quarter for a period of 8 quarters (24 months) followed by a thesis or capstone project. They must also complete a one-week residency during their first 4000-level physics course to gain experience in experimental techniques. The courses are taught primarily via streaming video or video-teleconferencing (VTC.) Downloadable recordings of the classes are available for students who do not have access to VTC or miss a class. Instructors also use the virtual classroom software, Collaborate, for problem-solving sessions or individual help. The classes are usually timed to coincide with resident offerings. The course of studies is designed to improve the student's performance in operational, maintenance, and acquisition positions by providing them with a firm background in the fundamental science and engineering of acoustic systems.
APPLIED PHYSICS (537)

Curriculum 537
MASL# P179697 (PhD – 3 year program)

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Curriculum 537
MASL # P179698 (PhD – 4 year program)

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**Course Length:** 156 weeks (12 quarters) / 208 weeks (16 quarters)

**Program Description:** The Department of Physics offers a program of studies leading to the degree Doctor of Philosophy with a major in Applied Physics; areas of specialization include acoustics, electro-optics, weapon physics, and theoretical physics. Requirements for the degree fall into three categories: coursework, examinations, and dissertation research. The program requires 40 credit hours of 4000 level courses, which includes courses in Classical Mechanics, Electrodynamics, Statistical Physics, Quantum Mechanics, and Theoretical Physics, as well as courses directly related to the student's field of study. The department requires a Comprehensive Examination to demonstrate mastery of the required coursework. This examination should be taken within the first year after the student arrives at NPS, subject to completion of required courses. The student will work with their Dissertation Committee to identify a suitable research topic and conduct original research that makes a significant contribution to the field. A final examination is given when the research is completed, as part of the student’s Dissertation Defense.

A more detailed description of the departmental requirements is contained in the booklet "Doctoral Study in Physics or in Applied Physics at the Naval Postgraduate School," available from the Academic Associate. An applicant to the Ph.D. program who is not already a student at NPS should submit transcripts of previous academic and professional work, plus results of a current Graduate Record Examination (GRE) general test to the NPS Admissions Office.
NAVAL / MECHANICAL ENGINEERING (570)

Curriculum 570
MASL# P177715 (MS)

**2024**
- Course Report: 23 Jun 24 30 Dec 24
- Course Convene: 08 Jul 24 06 Jan 25
- Course Complete: 18 Jun 26 18 Dec 26

**2025**
- Course Report: 22 Jun 25 28 Dec 25
- Course Convene: 07 Jul 25 29 Dec 25
- Course Complete: 11 Jun 27 10 Dec 27

Curriculum 573
MASL# P179108 (PhD – 3 year program)

**2024**
- Course Report: 15 Sep 24
- Course Convene: 30 Sep 24
- Course Complete: 17 Sep 27

**2025**
- Course Report: 14 Sep 25
- Course Convene: 29 Sep 25
- Course Complete: 15 Sep 28

Curriculum 573
MASL# P179538 (PhD – 4 year program)

**2024**
- Course Report: 15 Sep 24
- Course Convene: 30 Sep 24
- Course Complete: 15 Sep 28

**2025**
- Course Report: 14 Sep 25
- Course Convene: 29 Sep 25
- Course Complete: 21 Sep 29

**Course Length:** (MS) 91 weeks (7 quarters), with Refresher 8 quarters (Curriculum 460)
(PhD) 156 weeks (12 quarters) / 208 weeks (16 quarters)

**Program Description:** The objective of this program is to provide graduate education, primarily in the field of Naval/Mechanical Engineering, to produce graduates with the technical competence to operate and maintain modern warships and naval systems. It establishes a broad background of basic engineering knowledge leading to advanced studies in heat transfer, fluid mechanics, control systems, solid mechanics and vibrations and material science. The graduate will be able to participate in technical aspects of naval systems design for technological advances in naval ships, submarines, autonomous vehicles, and related weapon systems. Through emphasis on the design aspect within the program, the graduate will be well prepared to apply these advances in technology to the warships and submarines of the future. The student will further specialize in at least one track from among controls systems, engineering materials, structures, or thermodynamics and fluids. An original research project resulting in a finished thesis is an integral part of the curriculum.

**Specialization Track Option.**
Track Core Requirement courses will be determined by the selection of the following specialization track option.

- **Aerospace Engineering**
  The objective of this program is to provide graduate education, primarily in the field of Aerospace Engineering, in order to produce graduates with the technical competence to operate and maintain modern military aerospace systems. The Aerospace Engineering program is designed to meet the specific needs of the U.S. Military, U.S. Coast Guard, and international partners with a broad-based graduate education in Aerospace Engineering with a focus on missile design, autonomous systems, and space systems. The program is intended to be completed within 36 months, assuming one course or thesis slot per quarter. This program gives the student a broad aerospace engineering education in the areas of aerodynamics, flight mechanics, propulsion, flight structures, astronautical systems and systems integration. Additionally, officers receive graduate level instruction in aerospace systems design. An original research project resulting in a finished thesis, or additional course work and a project is an integral part of the curriculum.
NAVAL REACTORS MECHANICAL/ELECTRICAL ENGINEERING (571) (DL)

Curriculum 571 (MS)  
(Distance Learning)  
MASL# P471127

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Course Length: 91 weeks (7 quarters)

Program Description: The objective of this special program is to provide both naval officers and civilian employees of Naval Reactors (NR), an advanced education leading to a Master of Science in Engineering Science with major in either Mechanical or Electrical Engineering. This is a non-thesis program for individuals who work as engineers and who wish to pursue a master's degree via Distance Learning. The program sponsor is NAVSEA and the subject matter expert is SEA-08.

MECHANICAL ENGINEERING FOR NUCLEAR TRAINED OFFICERS (572) (DL)

Curriculum 572 (MS)  
(Distance Learning)  
MASL# P471129

Any quarter.

Course Length: 91 weeks (7 quarters)

Program Description: This special program provides the opportunity for nuclear trained naval officers (those who have successfully completed Naval Nuclear Power School, Officers Course) to obtain a Master of Science in Engineering Science with a major in Mechanical Engineering - MSES(ME), while on sea or shore duty. This is a non-thesis program, but a capstone research or design project is required. This is a distance learning program, with content primarily offered via asynchronous course packages, in which pre-recorded lectures are provided to students on DVDs, and the student communicates directly with the professor. Synchronous course options are occasionally offered via video teleconference (VTC) facilities when available. The MSES-ME program is fully funded, off-duty postgraduate education.
SYSTEMS ENGINEERING (580)

Curriculum 580 (MS)
MASL# P174270

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Course Length: 91 weeks (7 quarters)

Program Description: Systems Engineering at NPS provides a broad education in systems engineering methods and tools, and depth in a particular domain of application. Two domain tracks are offered: combat systems engineering and ship systems engineering. Other tracks are added, based on sponsor and student demand. The tracks consist of eight or more courses to gain depth in the domain area. These tracks complement the standard set of systems engineering courses. The curriculum is interdisciplinary and draws on courses from across campus.

Graduates will: Demonstrate the ability to identify, formulate, and solve operational, technical, and engineering problems in Systems Engineering and related disciplines using the techniques, skills, and tools of modern practice, including modeling and simulation.

These problems may include issues of research, design, development, procurement, operation, maintenance or disposal of systems and processes for military applications.

Demonstrate proficiency in the systems engineering process, including defining requirements, conducting functional analysis, designing and architecting a system, analyzing it against requirements, allocation of requirements to subsystems, conducting trade-off studies, determining the cost of the system, integrating human factors into the system, designing logistical supportability, and planning for its testing and evaluation.

Demonstrate proficiency in core skills of systems analysis, to include deterministic and stochastic modeling of systems, optimization, decision analysis, risk analysis, economic models, and lifecycle supportability analysis. This includes familiarity with combat simulations and combat modeling.

Demonstrate the ability to work as a team member or leader in a large system engineering project, and to provide leadership in the systems engineering management process. The graduate must be able to interact with personnel from other services, industry, laboratories and academic institutions. Students come from the uniformed services, civilian members of government, and from foreign military services. US Navy Engineering Duty Officers constitute a substantial portion of the students.
SYSTEMS ENGINEERING PhD (581)

Curriculum 581
MASL# P170025 (PhD – 3 year program)

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 19 Mar 27  11 Jun 27  17 Sep 27  10 Dec 27

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 24 Mar 28  16 Jun 28  15 Sep 28  15 Dec 28

Curriculum 581
MASL# P170035 (PhD – 4 year program)

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24
Course Complete: 24 Mar 28  16 Jun 28  15 Sep 28  15 Dec 28

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 24 Mar 29  15 Jun 29  21 Sep 29  14 Dec 29

Course Length: 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: The Department of Systems Engineering offers a Doctor of Philosophy (Ph.D.) degree in Systems Engineering. Students take graduate level courses in systems engineering (as needed to pass the oral and written qualifying examinations), advanced graduate courses in systems engineering and an application domain, and perform research that leads to a dissertation involving some aspect of systems engineering.

Research topics may be selected from a broad variety of studies of the systems engineering process, applications of systems engineering to solving complex problems, systems level modeling and simulation, and systems suitability assessment. Ideally, applicants should possess an M.S. degree in Systems Engineering. Applicants with only a B. S. degree or an M.S. degree in another discipline will be required to take a number of systems engineering courses (equivalent to the coursework portion of an MSSE degree program) to pass the qualifying examinations. Unless an M.S. thesis and any other ABET accreditation requirements are also satisfied, an M.S.in Systems Engineering degree will not be awarded for this preparatory work.
**ELECTRONIC SYSTEMS ENGINEERING (590)**

Curriculum 590  
MASL# P177712 (MS)

**2024**  
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24  
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24  
Course Complete: 27 Mar 26  18 Jun 26  25 Sep 26  18 Dec 26

**2025**  
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  30 Dec 24  
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  06 Jan 25  
Course Complete: 20 Mar 27  12 Jun 27  18 Sep 27  18 Dec 27

Curriculum 594  
MASL# P179109 (PhD – 3 year program)

**2024**  
Course Report: 15 Sep 24  
Course Convene: 30 Sep 24  
Course Complete: 17 Sep 27

**2025**  
Course Report: 14 Sep 25  
Course Convene: 29 Sep 25  
Course Complete: 15 Sep 28

Curriculum 594  
MASL# P179539 (PhD – 4 year program)

**2024**  
Course Report: 15 Sep 24  
Course Convene: 30 Sep 24  
Course Complete: 15 Sep 28

**2025**  
Course Report: 14 Sep 25  
Course Convene: 29 Sep 25  
Course Complete: 21 Sep 29

**Course Length:** (MS) 104 weeks (8 quarters); (PhD) 156 weeks (12 quarters) / 208 weeks (16 quarters)

**Program Description:** This curriculum is designed to educate officers in current electronics technology and its application to modern naval warfare. It establishes a broad background of basic engineering knowledge, leading to selected advanced studies in electronic systems, ship/weapon control systems, and communication/information processing applicability. It will enhance individual performance in all duties through a naval career, including operational billets, technical management assignments and policy making positions, thereby preparing the officer for progressively increased responsibility including command, both ashore and afloat.

There are several areas of concentration within the curriculum that are available. They include:

- The Communications Systems area of concentration is designed to provide an advanced education in modern communication engineering topics such as digital communications, spread spectrum communication including anti-jam and low probability of intercept applications, forward error correction coding, and satellite communications.
- The Computer Systems area of concentration is designed to provide an advanced education in the design, implementation, and application of military computer systems, including such topics as logic circuits, logic design and synthesis, microprocessors, computer and digital systems architecture, military computer architectures, fault tolerant computing, high speed networking, silicon VLSI and gallium arsenide digital IC design, parallel processing, and the hardware/software interface.
- The Network Engineering and Cyber specialties address a range of diverse topics including wired and wireless network infrastructures including telecommunication systems, and their design and analysis; cyber infrastructures, reverse Engineering of cyber systems, wireless network security, vulnerability assessment, network traffic analysis and covert communications.
The Sensor Systems Engineering option provides an advanced education in the application of electromagnetic phenomenology to the design and analysis of military systems used for communications, interrogation and signal intercept, and targeting which supports modern electronic warfare. Courses are offered in a range of areas including antennas, propagation, scattering and RCS control, microwave and millimeter wave devices, as well as radar and communications ECM/ECCM.

The Guidance, Control, and Navigation Systems area of concentration is designed to provide and advanced education in the modeling and simulation advanced dynamic systems, the current state of knowledge regarding state estimation (linear and nonlinear filtering), system identification, and the control of dynamic systems, and to unite the theory with military applications. Courses in specific areas of military application currently include military robotics, missile guidance and control, and integrated target tracking.

The Power Systems option is designed to provide education in the analysis, design, simulation, and control of power electronic and electromechanical components and integrated topologies common to existing and proposed military systems.

The Signal Processing Systems option is designed to provide knowledge of algorithms and design of systems for analysis and processing of signals and images encountered in communications, control, surveillance, radar, sonar, and underwater acoustic.
MASTER OF ENGINEERING IN ELECTRICAL ENGINEERING (EE), MEng (592) (DL)

Curriculum 592
P471015 (Distance Learning)

Program Start: Any Quarter

**2024**

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<td>07 Jul 25</td>
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<td>19 Mar 27</td>
<td>11 Jun 27</td>
<td>17 Sep 27</td>
<td>10 Dec 27</td>
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Program Length: 104 weeks (8 quarters)

Program Description: This curriculum provides a solid theoretical foundation in electrical engineering concepts. Programs may be designed to focus in specific areas or cover a broad range of topics including electronic warfare, communication, computer, power, electronic, cyber and networking systems, guidance and control, and signal processing systems. Students may earn a series of academic certificates along the way, depending on the specific set of courses selected.

The program uses existing courses in the quarters they are normally offered for our resident students. The pace is somewhat flexible, but generally it is one course per quarter. The DL course sections are delivered via desktop-to-desktop computer Collaborate software, video teleconferencing (VTC) equipment, synchronously with our on-campus sections, or asynchronously. Podcasts are available for asynchronous viewing; however, these are not self-paced courses, and all course deadlines must be met. Laboratories may be delivered using VTC, podcast or virtual environments. In some cases, lab equipment may be sent out to students to be returned at course completion.

All individual course prerequisites must be met before enrolling in a course.

More information on the Electrical & Computer Engineering Department’s Distance Learning Programs, including a tentative schedule of DL course offerings, is available at:
https://www.nps.edu/web/ece/nps-ece-distance-learning-program

Quotas: 20

Course Prerequisites:
BSEE degree graduates with a 2.2 GPA or better, or graduates with a degree in a related field of science or engineering with appropriate academic background (knowledge of basic circuits, linear systems and Fourier transforms, probability and statistics, and undergraduate electromagnetic fields and waves).
ASTRONAUTICAL ENGINEERING PhD (597)

Curriculum 597
MASL# P170040 (PhD – 3 year program)

2024
Course Report: 23 Jun 24
Course Convene: 08 Jul 24
Course Complete: 11 Jun 27

2025
Course Report: 22 Jun 25
Course Convene: 07 Jul 25
Course Complete: 16 Jun 28

Curriculum 597
MASL# P170041 (PhD – 4 year program)

2024
Course Report: 23 Jun 24
Course Convene: 08 Jul 24
Course Complete: 16 Jun 28

2025
Course Report: 22 Jun 25
Course Convene: 07 Jul 25
Course Complete: 15 Jun 29

Course Length: 156 weeks (12 quarters) / 208 weeks (16 quarters)

Program Description: The SSAG Space Systems Engineering program offers Doctor of Philosophy (Ph.D.) degrees in Astronautical Engineering, Electrical Engineering, and Physics. The goal of the Ph.D. program is to provide the scholastic background and training necessary to perform and publish original research in the field of space systems engineering. Graduates will develop the skills to design and integrate military space payloads with other spacecraft subsystems. In addition, they will learn to design, develop, and manage the acquisition of space communications, navigation, surveillance, electronic warfare and environmental sensing systems. The program is managed by the SSAG Ph.D. Program Committee.
AEROSPACE ENGINEERING (608) (DL)

Curriculum 608
MASL# P471069 (Distance Learning)

2024
Course Report: 17 Mar 24  23 Jun 24  15 Sep 24  27 Dec 23
Course Convene: 01 Apr 24  08 Jul 24  30 Sep 24  08 Jan 24
Course Complete: 27 Mar 26  12 Jun 26  25 Sep 26  12 Dec 25

2025
Course Convene: 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25
Course Complete: 19 Mar 27  11 Jun 27  17 Sep 27  10 Dec 27

Course Length: 104 weeks (8 quarters)

Program Description: Candidates with acceptable academic background may enter a program leading to the degree of Master of Science in Aerospace Engineering (MSAE) or Master of Science in Engineering Science [with major in Aerospace Engineering] (MSES-AE) or Master of Engineering [Major in Aerospace Engineering] (MEng(AE)). Candidates who have not majored in aeronautical/aerospace engineering or closely related subject areas such as Mechanical Engineering, or who have experienced significant lapses in continuity with previous academic work, will initially take undergraduate courses in aeronautical engineering and mathematics to prepare for their graduate program.

The Master of Science in Aerospace Engineering and Master of Science in Engineering Science (with major in Aerospace Engineering) degrees requires:

- A minimum of 48 quarter-hours of graduate level work. The candidate must take all courses in an approved study program, which must satisfy the following requirements:
  - There must be a minimum of 32 quarter-hours of credits in 3000 and 4000 level courses, including a minimum of 12 quarter-hours at the 4000 level.
  - Of the 32 quarter-hours, at least 24 quarter-hours must be in courses offered by the MAE Department.
- A student must demonstrate knowledge of aerodynamics, aircraft stability and control, aircraft structures, aircraft and missile propulsion.
- The student must also demonstrate competence at an advanced level in one of the above disciplines of Aerospace Engineering. This may be accomplished by completing at least eight quarter-hours of the 4000 level credits by courses in this department and a thesis in the same discipline area. The typical specialization track is in Aircraft Structures, Aerodynamics, Stability and Control, and Propulsion.
- An acceptable thesis for a minimum of 16 credits is also required. The student's thesis advisor, the Academic Associate, the Program Officer, and the Department Chairman must approve the study program and the Thesis Proposal.

The Master of Engineering [Major in Aerospace Engineering] Degree Program - MEng(AE) degree requires:

- A minimum of 44 quarter-hours of graduate level work. The candidate must take all courses in an approved study program, which must satisfy the following requirements:
  - There must be a minimum of 32 quarter-hours of credits in 3000 and 4000 level courses, including a minimum of 12 quarter-hours at the 4000 level.
  - Of the 32 quarter-hours, at least 24 quarter-hours must be in courses offered by the MAE Department.
- A student must demonstrate knowledge of the disciplines of Aerospace Engineering: aerodynamics, aircraft stability and control, aircraft structures, aircraft and missile propulsion.
- An optional Capstone Research Project: 8 quarter-hours of research project may substitute for coursework as approved by the Dept Chair. The plan-of-study may contain a culminating major engineering design experience.
U.S. NAVAL TEST PILOT SCHOOL/MECHANICAL AND AEROSPACE ENGINEERING PROGRAM (613) (DL)

Curriculum 613 (MS) Distance Learning
MASL# P471066

Available any quarter

Course Length: 78 weeks (6 quarters)

Program Description: The objective of this special program is to provide an opportunity for graduates of the U.S. Naval Test Pilot School (USNTPS), who are trained in aircraft, rotorcraft, and airborne systems flight test, to obtain a Master of Science in Engineering Science with a major in Aerospace Engineering – MSES(AE). This is a distance learning program building upon the USNTPS academic and flight test instruction, with the student's USNTPS final flight test project and report serving in lieu of a thesis, and will provide advanced aerospace engineering knowledge to the test pilot and flight test engineer. NPS instruction will include advanced aerodynamics, aircraft structures, stability and control, and propulsion, and may also include systems engineering, autonomous vehicles, and air vehicle survivability. Instruction in flight system testing from the USNTPS as well as advanced graduate education in aerospace engineering topics from the NPS will qualify graduates of this program to participate in all technical aspects of naval air weapon systems acquisition.

SYSTEMS ENGINEERING MANAGEMENT / PRODUCT DEVELOPMENT (MS) (721) (DL)

Curriculum 721
MASL# P174022 (Distance Learning)

Course Start: September (only)

Course Length: 104 weeks (8 quarters)

Program Description: 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.
Curriculum 722
MASL# P471135 (Distance Learning)

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Course Length: 104 weeks (8 quarters)

Program Description: The Systems Engineering Management program is an interdisciplinary program combining systems engineering with program management knowledge and skills. The program is intended to broaden the technical capabilities of the acquisition workforce who may have less technical backgrounds so they are able to successfully manage and lead programs/projects in support of the Defense Acquisition System. Students in this program learn the systems engineering process from establishing system requirements through verification and validation. Simultaneously students learn how to manage, schedule, and budget programs as well as work with DoD suppliers through contracts to meet program obligations.
Program Description: This joint Naval Postgraduate School (NPS) and National University of Singapore (NUS) program provides qualified personnel with an advanced understanding of the dynamic complexity of military warfare for exploiting emerging technologies to achieve war-fighting advantages. The joint curriculum provides a platform for the education and the integration of operational staff and defense technologists to plan, design, develop, create, operate and sustain Integrated Military Forces of the 21st Century.

The first two quarters (six months) of the joint curriculum are conducted at NUS by faculty from NUS and NPS, and provide a firm grounding in key technical and project management skills. The third to sixth quarters (one year) are conducted at NPS, where the students will enter into designated specialization tracks such as Communication Systems, Sensor Systems, Operations Research, Information Assurance and Guided Weapons Systems. The students blend their operational experience with a thorough technical education to expeditiously integrate new technological capabilities into operational applications.

Upon successful completion of the coursework, an integrated project, and thesis research, the student will be awarded two separate degrees. From NPS students receive an M/S in the appropriate technical field, such as Electrical Engineering, Computer Science, Mechanical Engineering, Systems Engineering, Systems Engineering Analysis, and Operations Research. NUS awards an MS in Defense Technology and Systems.
TOTAL SHIP SYSTEMS ENGINEERING (TSSE) (MS)

MASL# P177715 – Naval/Mechanical Engineering
MASL# P177712 – Electronic Systems Engineering
MASL# P179906 – Combat Systems

Course Report: 15 Sep 24  Course Report: 14 Sep 25
Course Convene: 30 Sep 24  Course Convene: 29 Sep 25
Course Complete: 25 Sep 26  Course Complete: 17 Sep 27

Course Length: 104 weeks (8 quarters)

Program Description: Engineering program through the standard 533/570/590 curricula; Combat Systems, Naval/Mechanical Engineering, and Electrical Engineering respectively.

Total Ship Systems Engineering will generally fit as part of an eight-quarter program, with TSSE electives commencing in October. The ease of accommodating TSSE in a student’s program is influenced by the student’s NPS entry quarter and undergraduate background and performance. Individuals interested in the program should explore the necessary course sequencing with the program officer as early as possible.

The objective of this program is to provide a broad-based, design-oriented education focusing on the warship as total engineering system including hull, mechanical, electrical and combat systems. The program is for selected Naval/Mechanical Engineering, Electrical Engineering, and Combat Systems Sciences and Technology students and is structured to lead to the MSME, MSEE, or MS in Physics.
DEPARTMENT OF DEFENSE MANAGEMENT (DDM) PROGRAMS
ADVANCED ACQUISITION PROGRAM - PROGRAM MGMT CERTIFICATE (DL) (211)

Curriculum 211 (DL)
MASL# P471133

Program Start: Any Quarter

Course Length: 52 weeks (4 quarters)

Program Description: The Advanced Acquisition Program (AAP) is a 12-month, graduate certificate program designed for both the DoD acquisition workforce and professionals working with system acquisition and program management. Students develop an in-depth knowledge of the defense business and acquisition process. This cohort-based program is offered part-time with flexible delivery mode options of online, resident and on-location. Completion of the AAP certificate satisfies DAWIA Level II and supports Level III in Program Management. Students also earn up to 19.5 graduate credit hours toward a NPS master's degree program. Additionally, AAP provides DoD students with up to 195 hours of Continuous Learning under the Continuous Learning program (CLP), 31.5 Continuing Education Units (CEU), 6.38 Business Credits toward the requirement of 24 for the GS-1102 series. The AAP is a three-phased graduate certificate program of seven courses delivered over four NPS academic quarters. While the three phases must be completed in sequence, there is no requirement to complete them in the normal one-year time frame (four academic quarters).

DEFENSE CONTRACT MANAGEMENT (815)

Curriculum 815
MASL# P179908

2024
Course Report: 23 Jun 24 29 Dec 24
Course Convene: 08 Jul 24 30 Dec 24
Course Complete: 19 Dec 25 18 Jun 26

2025
Course Report: 22 Jun 25 28 Dec 25
Course Convene: 07 Jul 25 29 Dec 25
Course Complete: 18 Dec 26 18 Jun 27

Course Length: 78 weeks (6 quarters)

Program Description: This is a six-quarter interdisciplinary program which integrates mathematics, accounting, economics, finance, behavioral science, management theory, operations/systems analysis and specific courses in acquisition and contracting. Student input includes officers and civilians from all DoD services, the Coast Guard and other nations. The curriculum is designed to provide officers and civilians with the skills to serve effectively in hardware systems, buying offices, field contracting offices, contract administration offices and contracting policy offices.
SYSTEMS ACQUISITION MANAGEMENT (816)

Curriculum 816  
MASL# P179909

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Course Length: 78 weeks (6 quarters)

Program Description: This is a seven-quarter interdisciplinary program designed to integrate business principles, management theory, operations/systems analysis, and to Defense acquisition management and intensive exposure to the fundamental principles of the acquisition environment. The courses in this curriculum present the structure of acquisition management, the decisions and problems facing the defense acquisition manager, the various forces at work within the industry and Government, and the impact of acquisition policies and strategies. Student input includes officers and civilians from all DoD services, the Coast Guard, and other nations.

Specialization Track Options.
Track core requirement courses will be determined by the selection of the following specialization track option.

- Logistics Information Technology (convenes Summer quarter)
  The Logistics Information Technology graduate shall have the knowledge skills and competencies to: 1) Manage the acquisition of information systems; 2) Manage information systems and infrastructure support afloat and ashore; 3) Solve information systems engineering and management problems individually and in teams; 4) Effectively manage and lead in today’s constantly changing digital world; 5) Develop and implement effective strategies and policies to take advantage of technological opportunities and mitigate risks; 6) Assimilate new technologies and transform organizations, processes, and strategies to compete in the marketplace or on the battlefield. These general education skill requirements are supported by the following topical educational skill requirements.
DEFENSE SYSTEMS ANALYSIS (817)

Curriculum 817 (MSM)
MASL#P179618

2024
Course Report: 23 Jun 24 29 Dec 24
Course Convene: 08 Jul 24 30 Dec 24
Course Complete: 19 Dec 25 18 Jun 26

2025
Course Report: 22 Jun 25 28 Dec 25
Course Convene: 07 Jul 25 29 Dec 25
Course Complete: 18 Dec 26 18 Jun 27

Course Length: 78 weeks (6 quarters)

Program Description: This curriculum provides officers with the fundamental interdisciplinary techniques of quantitative problem-solving methods, behavioral and management science, economic analysis, and financial management. The curriculum educates students to evaluate others' research and analysis and to develop in them sound management and leadership skills. This curriculum is an interdisciplinary program that integrates mathematics, accounting, economics, behavioral science, management theory, operations/systems analysis, and a subspecialty into an understanding of the process by which the defense mission is accomplished.

Specialization Track Options.
Track Core Requirement courses will be determined by the selection of the following specialization track option.

- Defense Systems Management - International
  This program is designed to provide officers with fundamentals interdisciplinary techniques of quantitative problem-solving methods, behavioral and management science, economic analysis and financial management to enable the officers to evaluate the written research, study and analysis product of others throughout their careers. The curriculum will further provide the officers with the specific functional skills required to effectively manage. The curriculum integrates mathematics, accounting, economics, behavioral science, management theory, operations/systems analysis and a subspecialty concentration area into an understanding of the process by which the defense mission is accomplished. Specialty concentration areas are selected by the student by their choice of course options. The track option allows students to design a program of course work specific to management effectiveness in the host country’s military system. The student may elect to specialize in the relevant portion of a functional area such as financial, logistics, human resources and organization, or manpower and personnel analysis. Or, the student may choose to follow a general management program which would include an overall balance of courses from many areas.
DEFENSE LOGISTICS MANAGEMENT (819/827)

Defense Logistics Management was formerly known as Supply Chain Management, and/or Materiel Logistics Support.

Curriculum 819/827 – Defense Logistics Management  
MASL# P179907

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Course Length: 78 weeks (6 quarters)

Program Description: The Defense Logistics Management curriculum is interdisciplinary, integrating mathematics, accounting, economics, management theory, operations analysis and the specialty concentration into an understanding of the process by which the defense mission is accomplished. The program is designed to provide the officer with fundamental interdisciplinary techniques of quantitative problem-solving methods, behavioral and management science, economic analysis, and financial management; furthermore, it is intended to provide the officer with a Defense Systems-oriented graduate management education and to provide the officer with the specific functional skills required to effectively manage in this subspecialty area.

The objective of this program is to prepare officers for logistics system positions. The Defense Logistics Management curriculum emphasizes all of the aspects for providing integrated logistics support of military systems. Skills resulting from the curriculum will prepare those responsible for managing the various segments of a military system’s life cycle from initial planning for support to fielding the system, through sustaining operations to phase out. This curriculum additionally emphasizes the management of military owned inventories at the three levels of wholesale, intermediate and retail customer support, and worldwide transportation and distribution systems. The logistics concentration subjects are significant components of the military supply chain and each provides unique and relevant education that meets the critical needs of the armed services.

The specialized logistics courses concentrate on studies in production and project management, inventory management, integrated logistics support, procurement and contract administration, systems acquisition, and logistics strategic planning.
Curriculum 836
MASL# P471209 (Distance Learning)

Course Start: Any quarter

Course Length: 104 weeks (8 quarters)

**Program Description:** 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.
DEFENSE FINANCIAL MANAGEMENT (837)

Curriculum 837  
MASL# P179127  

2024  
Course Report: 23 Jun 24  
Course Convene: 08 Jul 24  
Course Complete: 19 Dec 25  

2025  
Course Report: 22 Jun 25  
Course Convene: 07 Jul 25  
Course Complete: 18 Dec 26  

Course Length: 78 weeks (6 quarters)  

Program Description: The objective of the Defense Financial Management Curriculum is to prepare officers for business and financial positions within the Navy. Financial Managers assist the services’ decision-making processes at all levels by providing accurate, timely and relevant information. They are concerned with the optimal allocation of information. They are concerned with optimal allocation of human, physical and financial resources to achieve the services’ goals and objectives while assuring efficient and effective expenditure of public funds. Graduate courses cover topics such as financial reporting standards, cost standards, cost analysis, budgeting, internal control, auditing, management planning and control systems, quantitative techniques used in planning and control, and the Planning Program and Budgeting Systems used within the Department of Defense.

Graduates of the Financial Management Curriculum will be prepared for assignment to positions in budgeting, accounting, business and financial management, and internal control and auditing.
Program Description: This program is designed to fill the leadership roles of military manpower management. MSA is an extremely analytical curriculum intended to develop skills necessary to perform and evaluate manpower analyses. As such, the curriculum emphasizes mathematical, statistical, and other quantitative methods. Areas covered include an understanding of MSA policy development, compensation systems, productivity analysis, enlistment supply and retention models, manpower requirements determination processes, career mix, enlistment incentives, reenlistment incentives, training effectiveness measures and hardware/manpower trade-offs. Students gain familiarity with current models and methods of MSA analysis as well as military MSA organizations and issues.
ENERGY ACADEMIC GROUP (EAG) PROGRAMS
OPERATIONAL ENERGY CERTIFICATE: UNMANNED SYSTEMS PERSISTENCE (117) (DL)

Curriculum 117
MASL #P471116 (Distance Learning)

Course Start: Winter quarter 2023 (December)

Course Length: 52 weeks (4 quarters)

The Operational Energy Certificate: Unmanned Systems Persistence is built to enhance students’ proficiency in developing systems and concepts that enable greater reach and endurance of unmanned capabilities. The certificate consists of 4 courses which are delivered online, asynchronously, via a web-based system. The courses will cover a wide array of topics encompassing robotics, autonomous and unmanned systems, energy security and geopolitics, as well as naval tactical and joint campaign analyses. The program aims to provide students with information and guidance in the basic technologies, concepts, laws and assumptions associated with the use of autonomous, robotic, and unmanned systems in military operations and human domain. The certificate program is delivered via distance learning for 25 students.

OPERATIONAL ENERGY CERTIFICATE: AEROSPACE ENGINEERING (118) (DL)

Curriculum 118
MASL #P471123 (Distance Learning)

Course Start: Every quarter.

Course Length: 52 weeks (4 quarters)

Focuses on relevant topics in aerospace engineering, including fixed wing, rotary wing, and missile propulsion engines, as well as analyzing the performance of rocket motors through knowledge of the behavior and design characteristics of their individual components.

OPERATIONAL ENERGY CERTIFICATE: DIRECTED ENERGY (119) (DL)

Curriculum 119
MASL #P471113 (Distance Learning)

Course Start: June

Course Length: 52 weeks (4 quarters)

The Operational Energy Certificate: Directed Energy will provide graduate level coursework to educate active duty and civilian DoD employees to increase proficiency in development and integration of DE systems, and to expedite fielding DE capabilities. The certificate consists of 4 courses which are delivered online, asynchronously, via a web-based system. The courses will cover a wide array of topics encompassing foundations physics, the basics of energy for the warfighter, energy-based weapons, and current technology utilized in contested environments. This certificate program is delivered via distance learning for 25 students.
OPERATIONAL ENERGY CERTIFICATE: REFUEL (CONTESTED) LOGISTICS (121) (DL)

Curriculum 121
MASL #P471115 (Distance Learning)

Course Start: Fall quarter 2023 (September)

Course Length: 52 weeks (4 quarters)

The Refuel Logistics Graduate Certificate will provide graduate level coursework to educate active duty and civilian DoD employees to increase proficiency in integration and planning of refueling capabilities specifically within contested environments. The certificate consists of 4 courses which are delivered online, asynchronously, via a web-based system. The courses will cover a wide array of topics encompassing physics-based energy concepts, metrics and research related to contested environments, and warfare operations. The program aims to provide students with logistics information and guidance in contested environments. This certificate program is delivered via distance learning for 25 students.

OPERATIONAL ENERGY CERTIFICATE: MECHANICAL ENGINEERING - STRUCTURES (122) (DL)

Curriculum 122
MASL #P471125 (Distance Learning)

Course Start: Any quarter

Course Length: 52 weeks (4 quarters)

Provides personnel with the conceptual knowledge and practical applications of structural mechanics, including quasi-static and dynamic structural responses to multiple load types, strengthening mechanism to support material selection, and finite element theory and software implementation.

OPERATIONAL ENERGY CERTIFICATE: MECHANICAL ENGINEERING – THERMO/FLUIDS (123) (DL)

Curriculum 123
MASL #P471121 (Distance Learning)

Course Start: Any quarter

Course Length: 52 weeks (4 quarters)

Provides personnel with the conceptual knowledge and practical applications in fluid mechanics, heat transfer, thermodynamics, and power and propulsion systems common in Naval Mechanical Engineering. This certificate is intended for working engineers.
CONTINUING EDUCATION PROGRAMS
# ENGINEERING SCIENCE (460) – REFRESHER QUARTER

**Curriculum 460**  
MASL# P174233

**2024**  
**Course Report:** 17 Mar 24  23 Jun 24  15 Sep 24  29 Dec 24  
**Course Convene:** 01 Apr 24  08 Jul 24  30 Sep 24  30 Dec 24  
**Course Complete:** 21 Jun 24  27 Sep 24  20 Dec 24  28 Mar 25

**2025**  
**Course Report:** 16 Mar 25  22 Jun 25  14 Sep 25  28 Dec 25  
**Course Convene:** 31 Mar 25  07 Jul 25  29 Sep 25  29 Dec 25  
**Course Complete:** 20 Jun 25  26 Sep 25  19 Dec 25  27 Mar 26

**Course Length:** 13 weeks (one quarter)

**Program Description:** 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 13 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.
USMC COMMAND AND STAFF COLLEGE REGIONAL SEMINAR (CONUS)

MASL# P171854

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**Course Length:** 78 weeks (6 quarters)

**Program Description:** The curriculum is derived from and parallel to the curriculum of the resident Command and Staff College (CSC). It is an accredited JPME Phase I Service Intermediate-Level program designed to educate joint, multinational, and interagency professionals in order to produce skilled warfighting leaders able to overcome diverse 21st century security challenges.

In conjunction with applying the Marine Air-Ground Task Force (MAGTF) doctrine and techniques to the changing conditions of warfare, this understanding gives officers the necessary tools to successfully function in any operational environment. Overall, the program’s focus is to develop officers who critically think, solve problems, and understand the capabilities and potential roles of MAGTFs in a joint-multinational-interagency environment.

The primary instructional methodology for the regional seminar curriculum is the seminar/guided discussion conducted by the Faculty Advisor in a conference group setting.

Seminars are conducted monthly or weekly at College of Continuing Education Satellite Campuses utilizing qualified adjunct faculty.

**Prerequisites:**
Major and Lieutenant Colonel (O-4 – O-5).
Waivers are available for senior O-3s.

**Note:** This program is available to international students pursuing graduate education at the Naval Postgraduate School in Monterey, CA. Students desiring to complete this program will enroll in the weekly seminar conducted by the College of Continuing Education Satellite Campus in Monterey. This enrollment will be concurrent with enrollment in their Naval Postgraduate School curricula utilizing location code PPGS and will be programmed as a separate line of training. Internationals should have 18 months remaining in their Naval Postgraduate School curricula to enroll in this program.
1. NPS has also developed a series of non-degree program MASLs (up to one year) to accommodate requests for eligible students who are not available for the full degree programs. Students will be integrated into regular master’s curriculum classes therefore, standard admissions eligibility and TOEFL requirements apply. Course options will depend on whether prerequisite courses are required and when during the year that they are offered. Check the online edition of the NPS catalog for specific course offerings and descriptions: http://www.nps.edu/admissions/catalog

2. Example offerings include:
   a. Security Studies
      NS 3000-War in the Modern World
      NS 3023-Introduction to Comparative Politics
      NS 3024-Introduction to International Relations
   b. Combating Terrorism-Policy & Strategy
      NS 3801-International Terrorism
      NS 3802-Counterterrorism Policy in Comparative Perspective
   c. Defense Systems Management
      GB 3010-Managing For Organizational Effectiveness
      GB 3050-Financial Reporting and Analysis
      GB 3070-Economics of the Global Defense Environment
   d. Financial Management
      GB 3040-Managerial Statistics
      GB 3051-Cost Management
      GB 4052-Managerial Finance
   e. Joint Command, Control, Communications, Computers, and Intelligence (C4I) Systems
      CC3000-Introduction to Command and Control
      CC3102-Introduction to Combat Modeling and Analysis for C4I
      CC4101-Systems Engineering for Joint C4I
   f. Computer Science, Information Security and Assurance Track
      CS 3600-Information Assurance: Introduction to Computer Security
      CS 3690-Network Security
      CS 3675-Network Vulnerability Assessment

3. Research can be conducted at NPS in conjunction with independent post doctoral study or in conjunction with other university degree programs. Acceptance will depend on identifying suitable NPS faculty with expertise in the identified research area.

NON-DEGREE MASLs:
- P179914 – Research only - from one week to three years
- P179268 – One quarter - one course
- P179267 – One quarter - two courses
- P179266 – One quarter - three courses
- P179265 – One quarter - four courses
- P179269 – Two quarters - eight courses
- P179270 – Three quarters - twelve courses
- P179271 – Four quarters - sixteen courses

DISTANCE LEARNING NON-DEGREE MASLs:
- P471914 – DL Research only
- P471010 – One quarter - one course
- P471011 – One quarter - two courses
HOUSING
HOUSING OPTIONS AT NPS

ARRIVAL/TEMPORARY QUARTERS

A. Hotel Del Monte (HDM) - formerly known as Navy Gateway Inns & Suites. There are three types of lodging available for students in the HDM, with an additional option for Colonels (O-6) and higher:

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<thead>
<tr>
<th>ROOM TYPE</th>
<th>ROOM PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Queen (with Kitchenette)</td>
<td>$142</td>
</tr>
<tr>
<td>Deluxe Queen Suite w/Kitchenette</td>
<td>$152</td>
</tr>
</tbody>
</table>

NOTE: Suites will have a sofa sleeper; single rooms will not. Maximum number of people per standard room is 3; per suite is 4. (Single rooms may have a roll-a-way if requested). All rooms have microwave, TV, DVD refrigerator, hairdryer, coffeemaker, queen-size bed, ironing board, and alarm clock.

Navy Region Southwest, which operates the Hotel Del Monte (HDM) implemented cashless operations beginning 1 Feb 2019. HDM will not accept cash payment from International students. Payments will be received via credit cards, debit cards, money orders obtained at bank, credit union, or post office.

B. Navy Lodge/Civilian Hotel. The Navy Lodge is located approximately one mile from campus. Rooms are available at a rate of $115 per night or $160 for family rooms. If the HDM or Navy Lodge are unavailable, it is recommended that the student (and family) be prepared to stay in a hotel in town for the first week or so while checking out the housing situation (average cost $75-$145 per night per room depending on location and season). Reservations can be made with RESORT TO ME at (800) 757-5646, (831) 646-9250, (831) 642-6622 or http://resort2me.com. This is an agency that will locate accommodations to fit individual family needs; all that is needed is to call, tell them how many people, the preferred area, and preferred price range. [Best bet would be Monterey near NPS (also will be more affordable). Obviously if you choose to stay (or live) in Pebble Beach or Carmel, prices will be considerably higher.] Reservations need to be guaranteed with a credit card.

PERMANENT QUARTERS

PRIVATIZED MILITARY HOUSING

A. The Parks at Monterey Bay is privatized military housing managed by The Michaels Organization, and is available to all international students for at least a year-long lease on a space available basis. Anticipated wait time for move in for 2-3 bedroom houses varies between two weeks and three months depending on availability. Those families requiring a 4-bedroom house may have up to a 6-month wait. Single Students/Geographic Bachelors are also eligible to live in privatized housing managed by The Michaels Organization. Privatized housing rent includes utilities (gas, electricity, and water) and does not require a security deposit. Housing is divided into rank designated areas (O1-O3 and O4-O6).

1. Foreign Military Sales (FMS). FMS Students pay rent out of their own pockets (i.e., not subsidized by the US government). FMS students, married and accompanied by their families, living in privatized (government) housing, pay $2,795 per month (effective 1 Feb 19) for an unfurnished house.

2. International Military Education and Training (IMET) and Combating Terrorism Fellowship Program/Regional Defense Fellowship Program (CTFP/RDFP). IMET students (who receive an IMET living allowance) and CTFP/RDFP-funded students living in government housing are charged rent based on the basic allowance for housing (BAH) rate which is determined by their rank and whether accompanied or not. See chart below.
PERMANENT QUARTERS (CONTINUED)

The FY24 privatized housing rates for married/accompanied and single international officers receiving an IMET/CTFP Living Allowance are broken down below.

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<th>FY 24 BAH RATES for Privatized Government</th>
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<td>O-6</td>
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<td>O-7</td>
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</tbody>
</table>

Furniture for students residing in privatized military housing can be obtained through local furniture rental companies, such as CORT Furniture. FMS-funded students will incur an additional cost if they wish to rent furniture. IMET and CTFP/RDFP-funded students will be reimbursed at the following rates:

- Two Bedroom Home: $350.00 per month
- Three Bedroom Home: $445.00 per month
- Four Bedroom Home: $540.00 per month

B. Privatized-housing rates for single/unaccompanied officers are: FMS – $2,795 per month. Students receiving IMET/CTFP/RDFP Living Allowance pay the BAH unaccompanied rate.

IMET LIVING ALLOWANCE RATES

- Staying in Hotel (upon arrival; max of 30 days) – up to $166/day + $80/day per diem
- Staying in Privatized Housing (married & accompanied) - BAH RATE/month + $80/day
- Staying in Privatized Housing (single, geographical bachelors) – Unaccompanied BAH rate (IMET) + $80/day per diem
- Married, unaccompanied OR single; living in permanent Civilian Housing up to BAH rate + $80/day per diem
- If your family is authorized on your ITO and will be arriving later, you will be allowed to pay the without dependent rate for the first 30 days only. After 30 days, you will be required to pay the with-dependent rate. If your family departs early, the rent will not revert to without-dependent rate.

It is highly recommended that IMS arrive in Monterey with a 3-4 week money advance in order to pay lodging until first TLA payment is received.

CIVILIAN HOUSING OPTIONS

- Average cost of a one or two-bedroom apartment (unfurnished) is $1500-2400 per month plus utilities. Basic Cable begins at $53 and up per month. Basic telephone charges with no special services (i.e., call waiting, call forwarding, etc.), is approximately $26 per month. There are several long-distance companies to choose from. Utilities vary by apartment and usage.
- The NPS Housing Welcome Center has established an excellent web site for reviewing rental options in Monterey. Check out the following site: www.ahrn.com (note - you will need to register in order to gain access to the lists)
• **Furniture Locker.** The International Executive Committee maintains a Furniture Locker, which contains used furniture that may be “rented” for a nominal fee by international students during their stay at NPS.

• Other options for used furniture include:
  - Goodwill Industries
  - St Vincent De Paul
  - Habitat for Humanity

• **Renter’s Insurance.** As of February 2015, The Parks at Monterey Bay (La Mesa and Fort Ord housing) no longer provides insurance coverage for residents, so students will be required to obtain and provide a copy of renter’s insurance before signing a lease. You will be required to obtain and maintain Renter’s Insurance throughout your tenancy with a minimum liability of $10,000 per occurrence and a maximum deductible of $500.00. Renter’s insurance must be presented at lease signing. Coverage for furniture in lieu of Customer Protection Plan is possible for most renter’s insurance policies.
MEDICAL
MEDICAL INFORMATION

General Information – Medical Facilities in Monterey are extremely limited and all students coming to NPS should be thoroughly aware of what is and is not available, particularly when considering medical options for family members.

There is no full-service military hospital on the Monterey Peninsula. The nearest full-service military treatment facility (MTF) is located at Travis AFB (outside Sacramento, approximately 3½ hours driving time). This is especially critical when dealing with pregnancy-related treatment (particularly baby delivery). NOTE: Foreign military or their dependents are not allowed to seek care for pregnancy or routine visits at the Travis AFB unless referred by the Presidio of Monterey Army Health Clinic (POMAHC).

The only available military facility in Monterey is the Presidio of Monterey Army Health Clinic (POMAHC) with emphasis on the word - clinic! All active-duty military are required to seek assistance at the clinic before going to a civilian doctor unless it is an immediate or life-threatening emergency. The clinic will provide a referral to a civilian facility if treatment is beyond the capabilities of the clinic. The Presidio of Monterey Army Clinic hours are 0700-1600 M-F. Call the appointment desk at 866-957-2256.

The clinic does not provide appointments for family members. This means that international officers with families will be required to use civilian facilities, especially for emergency treatment and also for routine care. This also includes students from countries who have reciprocal medical agreements with the U.S.

Medical Care for Civilian Students – The Army Health Clinic at DLI is NO LONGER seeing civilian students. Civilian students will need to seek medical treatment with a civilian physician. It is recommended that unless it is an emergency involving broken limbs, irregular heartbeat or breathing, etc. that civilian students first seek treatment from Doctor’s on Duty or another Urgent Care Facility. For emergencies as noted above, or for treatment after hours, the student would go to the nearest Emergency Room [Community Hospital of Monterey Peninsula (CHOMP)]. The student’s ITO should have the mailing address for billing. The treating physician/facility may or may not bill the responsible agency directly. If after receiving treatment, you receive the medical bills, please bring them to the Health Benefits Advisor, NPS, Herrmann Hall, 4th floor, in the Dental Clinic area, so the payment can be forwarded. If you pay for any treatment and/or prescriptions yourself, you will need to bring your receipts to the Health Benefits Advisor’s office to fill out a claim for reimbursement which they will submit so you can be reimbursed.

International Military Student Procedures – International Military Students are eligible and required to use the POMAHC for their health needs and must schedule appointments for all routine and urgent health care needs unless referred to a civilian facility by a military doctor at the POMAHC. All nonemergency after-hour care must be coordinated with the Nurse Advice Line by dialing (800) 874-2273 Option 1. For emergency care (threat to life, limb, eyesight), members should go to the closest available Emergency Room, which for the Monterey Peninsula is the Community Hospital of the Monterey Peninsula (CHOMP) or dial 911. Please note that health coverage for international students is based upon agreements between the United States Government and their home country. Billing procedures may vary from country to country, particularly for referrals to civilian doctors. For more information, please contact the Health Benefits Advisor at NPS. In addition, please contact the Health Benefits Advisor as soon as possible after your ER or urgent care visit.

International Military Family Member Procedures – International Student Family Members have limited military options and should plan on obtaining most of their medical services through civilian providers for which they are financially responsible and must have all medical costs covered by the FMS Case, Foreign Government or individual medical insurance policies.
MEDICAL INSURANCE FOR DEPENDENTS (AND IMS) NOT COVERED BY THE FMS CASE OR THE FOREIGN GOVERNMENT

1. In accordance with DSCA Policy Memorandum 11-32, International Military Students, Civilians, and Authorized Dependents Healthcare Coverage, dated 15 Aug 2011, international students whose dependent medical costs are not covered by their government or the FMS Case, need to provide proof of dependent medical insurance to the Security Cooperation Office at the US Embassy in their country before their dependents can be authorized on their ITO. Upon arrival at NPS, the student will be required to provide a copy of their insurance policy. The policy needs to be in effect for the duration of their stay at NPS and must meet the requirements as listed in paragraphs 2, 3 and 4 below.

2. Minimum requirements for medical insurance
   a. Medical benefits of at least $400,000 per year, per person. Duration of policy must be for minimum of one year or remainder of time left at NPS, whichever is less.
   b. Annual deductible not to exceed $1000 per family.
   c. Students with accompanying spouses (or female students) must also have pregnancy insurance (in addition to basic medical insurance policy) if planning to get pregnant while in Monterey (see paragraph (3)).
   d. Repatriation of remains in the amount of $50,000 per person, should a death occur in the US. Note: this would provide for the preparation and transportation of remains to home country.
   e. Medical evacuation in the amount of $250,000 per person in the event insured must be returned to his/her home country due to a serious medical condition.
   f. Policies must be payable in us dollars at amounts specified in current DSCA policy and not foreign currency that, due to exchange rates, could be in lesser amounts when converted into dollars.
   g. Insurance must pay benefits to a department of defense medical facility if appropriate.
   h. Health insurance policy must be in English and be recognized as an international company and have a POC in the United States.

3. Pregnancy
   a. Because of the new higher cost medical policies now in effect, NPS requested and received a waiver for the requirement for dependent pregnancy coverage (Dec 2010). This means that you do not have to have pregnancy insurance for your wife, while you are attending NPS if you are not planning to have a baby. However, the waiver comes with the stipulation that if your wife becomes pregnant and does not have coverage as required by the US Dept. of Defense Regulations, she will be directed to return home immediately. Failure to notify the IGPO of impending pregnancy as soon as you become aware will result in disenrollment.

   If you are planning to have a baby, and all costs associated with pregnancy are not covered by your government (as indicated on your ITO) you need to secure pregnancy insurance prior to your wife getting pregnant. Foreign military/foreign civilians and their family members are qualified for pregnancy insurance coverage within 60 days of arrival to the United States or during the open enrollment period usually November 15-February 15.

   Pregnancy insurance requirements are as follows:

   Pregnancy insurance must include coverage of pre and post-natal care, as well as delivery, of at least $250,000 (this is in addition to the $400,000 minimum coverage for basic medical insurance). If medical costs are paid by your country, country will be notified of impending pregnancy through official channels.

   b. If a spouse becomes pregnant while at NPS, the student will notify the international programs office immediately. If medical costs are paid by the country, the country will be notified of the pregnancy.

   c. Unless the ITO specifically states foreign government or FMS case will pay all costs related to that pregnancy and delivery, spouses who are pregnant prior to departure for Monterey must present proof of complete pregnancy coverage prior to being authorized as an accompanying dependent on the ITO.
4. International students and their dependents while attending NPS are not authorized to participate in US federal or state medical/dental programs (this includes, but is not limited to: AIM, Medicaid, MediCal and other Federal/State programs).

5. Civilian Medical Services
   a. Listed below are the recommended civilian hospitals in the Monterey Area:

   **Community Hospital of the Monterey Peninsula (CHOMP)**  
   23625 Holman Highway, Monterey, 831-625-4900

   **Natividad Medical Center**  
   1441 Constitution Blvd, Salinas, 831-755-4111/831-755-6268

   **Salinas Valley Memorial**  
   450 East Romie Lane, Salinas, 831-372-7844/831-757-4333

   b. Listed below are the Urgent Care facilities available in Monterey:

   **Doctors on Duty – no appointments needed**  
   501 Lighthouse Ave, Monterey, 831-649-0770 (Mon-Fri 0800-2000 / Sat & Sun 0800-1800)  
   1513 Fremont St, Seaside, 831-899-1910 (Mon-Fri 0800-1900. Closed Sat/Sun)  
   3130 Del Monte BLVD, Marina 831-883-3330 (Mon-Fri 0800 – 1800. Closed Sat/Sun)  
   Average office visit $187-$337 depending on service
FIELD STUDIES PROGRAM
1. The Field Studies Program (FSP) is sponsored by the United States Government and is designed to familiarize international students with American society, institutions, history, and goals. It is funded from international tuition and includes numerous local and regional trips. Local events can include the Monterey County Fair. We also sponsor quarterly trips to San Francisco, and visits to Stanford University and the University of California at Berkeley. Three trips to our state capitol, Sacramento, are also conducted each year; as are several trips to our state parks to include one of our most picturesque national landmarks, Yosemite National Park. The program also includes two trips each year to our nation’s capital, Washington D. C, with side trips to the Gettysburg battlefield and the United States Naval Academy.

**Field Studies topic areas include:**
- Law of War
- International Peace and Security
- U.S. Government Institutions
- Political Processes
- Judicial System
- Free Market System
- Media
- Education
- Health and Human Services
- Diversity and American Life

2. The International Graduate Programs Office sponsors a seminar covering these topic areas that is required to be taken in the first or second quarter of each student’s academic schedule. The seminar description is as follows:

**IT 1500 Informational Program Seminar for International Officers (4-0)**

This class provides International students with an awareness and functional understanding of internationally recognized human rights and the American democratic way of life. Areas of emphasis introduced during the seminar include civil-military relations, human rights, relationships in a democratic society, and a comparative look at the U.S. free enterprise system. This is a graded course.

3. All transportation, lodging, entrance fees, and most meals are funded by the International Graduate Programs Office. These trips are offered on a voluntary basis to all International students and some of the trips include family participation.
GENERAL INFORMATION
GENERAL INFORMATION

**Location:** Monterey, CA is 2½ driving hours south of San Francisco; the International Graduate Programs Office (IGPO) is located aboard NPS, Herrmann Hall, Bldg. 220, Basement Floor, Room B-047.

**Student Arrival/Departure Info:** Preferred Airport - Monterey, California, which is located about 3 miles from NPS, is served by several flights daily from San Francisco and Los Angeles. Students terminating their flights in either San Francisco or Los Angeles will be responsible for arranging their own transportation to Monterey.

**General Info:** The IGPO will coordinate pickup of arriving students at Monterey Airport if we receive notification of ETA and carrier. If unable, commercial taxi service is readily available from the airport to the school (5 minutes). Use Yellow Cab [(831) 333-1234] as they are the only company with gate access to NPS. If you are IMET/ RDFP Funded, bring your cab receipt to the IGPO for reimbursement.

**Transportation:** No military transportation is available; local public transportation is limited. It is recommended students bring adequate funds to purchase a used car.

**Messing:** There is no full-service military messing facility at NPS. Continental breakfast and lunch are available at the El Prado Dining Room located in Herrmann Hall (co-located with the Hotel Del Monte). Dinner is available in the Trident Room, also located in Herrmann Hall. When possible, international students are housed in rooms with a kitchenette to aid in meal preparation.

**WEATHER**

“Sunny California” is not a true description of this part of the state. Throughout the year, daytime temperatures vary. The rainy season usually goes from December through March. Average rainfall is approximately 20 inches; however, summers are generally damp and foggy. But even at night, winter temperatures rarely reach freezing. With very rare exceptions the days are never hot (over 65-70 F). Nighttime temperatures range from about 40 - 60 F. Annual mean temperature is 64 degrees Fahrenheit.

**CLOTHING**

**Uniforms:** Uniforms are worn once a week (Tuesday) and for graduation. It is recommended that you have at least one winter and one summer uniform. The normal uniform of the day for class is casual business dress. For formal events, and for Graduation, bring your dress uniform (class A). If you are a civilian, bring a business suit.

**Adult Clothing:** Is recommended to bring a suit, or bring clothing that is considered appropriate for an occasional semi-formal evening of entertainment. Collared shirts, slacks, pantsuits, and business casual to be worn during the week to attend class when is not uniform day. Sports jackets, and sweaters are fine for practical occasions. A lightweight coat with a removable lining is very good for warmth throughout the year for both men and women.

**Children:** Shirts, undershirts and slacks (for boys); dresses, blouses, and slacks (for girls); and socks, sweaters, a coat with removable lining and a raincoat for both boys and girls.

All the clothes you may need can be purchased locally.

Native Costumes, if you have them, can be worn for International Day and other special occasions.
HILLSIDE — 26 miles; 40 min.

HOLLISTER — 50 miles; 1 hr. Take Hwy. 1 to Hwy 156. Follow the signs after you turn north on Hwy 101.

LOS ANGELES — 330 miles; 8 hours on Highway 101.

MOSS LANDING — 25 miles; ½ hour. Many antique shops.

RENO, NEVADA & LAKE TAHOE — 330 miles; 8 to 10 hours (see next.)

SACRAMENTO — California State Capitol. 190 miles; 4 to 5 hours. Take Highway 1 north to 156 to Highway 101. Go north to Highway 152 at Gilroy. Take 152 through the mountains to Interstate 5. Follow the signs north.

SALINAS — 15 miles; ½ hour drive on Highway 68.

SAN FRANCISCO — 120 miles; 4 hours. Scenic route is Coast Highway 1. Faster time on Highway 101.

SAN LUIS OBISPO — 130 miles; 4 to 5 hours south on Highway 1.

SAN JOSE — 75 miles; 1½ to 2 hour drive on Highway 101.

SAN JUAN BAUTISTA — 40 miles; ½ to 1 hour. A nice side trip — shops and a Mission.

SANTA CRUZ — 45 miles; ½ hour. Take Highway 1 North. Follow the signs.
The Monterey Peninsula lies midway along the California coast and is often called “the cradle of California history.”

Juan Rodriguez Cabrillo sighted La Bahia del los Pinos (Bay of Pines), now Monterey Bay; only 50 years after Columbus discovered the New World. Sixty years later, Sebastian Vizcaino landed there and reaffirmed Spain’s claim to the area and named the place of his landing “Monte Rey” for the Viceroy of New Spain, the Count of Monterey. For more than 60 years thereafter, the area was neglected and forgotten. The first permanent building, the Mission San Carlos de Borromeo, was established in 1770. In 1776, Spain named Monterey as the capital of its Pacific empire, including Baja and Alta California. Thus, in the same year that the United States proclaimed its independence on the Atlantic Coast, Monterey became the center of Spanish activity on the Pacific Coast. At this time, Spanish and Mexican rancheros were settling their immense grants of land around Monterey and the area thrived as a center of governmental and cultural activity.

The flag of the United States was raised over Monterey in 1846 by Commodore John Sloat, who had arrived on the frigate Savannah. Monterey became the first capital of the new State of California, and the California constitution was written there in 1849. After a brief period, however, the capital was moved to San Jose, and when gold was discovered in other parts of the state, the Monterey area lapsed into another period of obscurity.

Toward the close of the nineteenth century, outsiders began to discover the beauty of the area. The establishment of the Del Monte Hotel helped in the development of Peninsula as a resort area, and distinguished visitors from all around the world began to vacation in Monterey.

In 1900, the population of Monterey was less than 2,000 and the city was, for the most part, a rather dilapidated collection of old adobe and frame buildings. However, as in many other parts of California, the Peninsula began to grow and has experienced phenomenal increases in population and activity since about 1940.

Today, the Monterey Peninsula offers the same natural beauty it has always possessed. In addition to its historic landmarks, many art galleries, fine restaurants and shops, famed golf courses, and other cultural activities, it is home to a number of prominent educational institutions, many with an international orientation. In addition to the Naval Postgraduate School, the U.S. Defense Language Institute and the Middlebury Institute of International Studies are leaders in their respective fields.

HISTORY OF THE NAVAL POSTGRADUATE SCHOOL

Before World War II one of the finest luxury hotels in North America, the Del Monte Hotel, occupied the present site of the Naval Postgraduate School. From its opening in July 1880, it was an immediate success. The entire hotel was destroyed by fire in 1887, but the second Del Monte Hotel rose promptly at the same location and was more splendid than its predecessor. In the early morning of September 27, 1924, fire again devastated the central wooden structure of the hotel. Reconstruction was again immediate, and the more modern building continued to make the Del Monte one of the showplaces of the world.

In 1942, the hotel was taken over by the U.S. Navy and was used as a pre-flight school for aviators. By the end of World War II, it had become apparent that the facilities of the Naval Postgraduate School at the Naval Academy at Annapolis, Maryland, would be insufficient for the Navy’s future needs. Thus, in 1947, Congress authorized the purchase of the Del Monte property and the Postgraduate School was officially moved from Annapolis to Monterey in 1951.

The main building of the former Del Monte Hotel, now named Herrmann Hall, which once played host to world dignitaries, houses the principal administrative offices of the Naval Postgraduate School. The academic quadrangle was built incrementally after the school officially opened for business in 1951. The most recent additions include the renovation of the library (more than doubling its usable space), the new academic building - Glasgow Hall, and our Mechanical Engineering Building. We also completed an extension to Glasgow Hall, and a $35 million renovation of the two wings of Bachelor Officers’ Quarters (BOQ) located in Herrmann Hall. Additionally, a new classroom building Reed Hall was completed in 2012 with numerous renovations to other classroom buildings (Spanagel and Root Hall). Finally, a two-year renovation of the exterior of Herrmann Hall was completed in 2014.
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