**Benefits**

Knowledge and analytical skills acquired in the Space Systems Certificate Program will prepare you to:

- Advocate USN/DoD interests in significant National Security Space Organizations
- Drive participation in joint processes for space system architecture and requirements development
- Prioritize the resources necessary to formulate and defend operational requirements for space
- Engage in partnerships with other military services and agencies, such as the National Reconnaissance Office (NRO), National Security Agency (NSA), the National Geospatial-Intelligence Agency (NGA), and Defense Information Systems Agency (DISA), to achieve naval space goals
- Compete for leadership positions in space programs and organizations
- Completion counts towards Information Professional Advanced Qualification Certification Matrix (COMNAVCYBERFORINST 1520.1)
- Upon completion students will be awarded the 6206-L subspecialty code.
- Gain knowledge required in corresponding fundamentals section of Space Cadre PQS

“I’M REALLY GLAD I TOOK SS3011 BEFORE BECOMING A C4I OFFICER DEPLOYED DURING OPERATION IRAQI FREEDOM. IT GAVE ME A BETTER UNDERSTANDING OF MILITARY AND COMMERCIAL SATELLITE ASSETS AND THEIR RELEVANCE TO MEET OUR MILITARY C2 NEEDS.”

-Student

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**Contact Information**

**Program Coordinator**

ssCertProg@nps.edu

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**Space Systems Certificate Information**

**Certificate Description**

www.nps.edu/Academics/DL/DLPrograms/Programs/cert_SS.html

**Certificate Application Information**

www.nps.edu/Academics/Admissions/ApplyOnline/ApplyNow.html

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**NPS Website**

www.nps.edu
Certificate Program

The Naval Postgraduate School (NPS) offers a certificate program in Space Systems via a distributed learning (DL) environment. To earn the certificate, you must complete four courses. All of these courses may also be applied toward degree programs in Space Systems Operations.

Purpose of Certificate

Space assets are essential to modern warfare. The Space Systems Certificate provides the foundation to understand the integration of space capabilities across combined armed forces, involving networks, sensors, and weapons. The certificate course sequence covers MILSATCOM, remote sensing, the space environment, and orbitology, imparting knowledge and insight to exploit the combat advantage provided by current and future space-based resources.

Remote Sensing

Satellite Communication

Network Centric Warfare

Orbital Mechanics

The Space Environment

Space Control

Missile Warning

GPS

Certificate Courses Include:

SS3011
Space Technology and Applications

SS3613
Military Satellite Communications (MILSATCOM)

PH3052
Physics of Space and Airborne Sensor Systems

PH2514
Intro to the Space Environment - UNCLASS Option OR

SS3051
Military Applications of DoD and Commercial Space Systems - Classified Option (SECRET Level)

Program Eligibility

- Active US Military officers and enlisted (Tuition is paid for USN/USMC Students)
- DoD employees and contractors
- Baccalaureate Degree (BA or BS)
- Command Endorsement

Prerequisites

- Baccalaureate Degree, with completion of college level algebra 2, and college level physics (Electricity and Magnetism emphasis)

“Right after I finished your course, I headed out to San Diego to become the C4I Officer on CCDG staff. I’ve been immersed for months now in ensuring our units had as much SATCOM assets as we could beg and borrow for them. It (the SS3011 course) gave me a much better understanding of satellite assets for our military, both military and commercial.”

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“This course should be required for all Naval Officers.”

- Student

Space Systems Degree Programs

Upon completion of the Space Systems Certificate Program, you may matriculate to resident NPS degree programs in Space Operations or Space Systems Engineering. The MS Space Systems Operation degree is also offered via distributed learning.

Space Systems Operations

The Space Systems Operations MS degree program is intended to provide a command with an officer who can plan and manage the operation, tasking and employment of space surveillance, intelligence collection, communications, navigation and atmospheric/oceanographic/environmental sensing systems throughout their lifecycle.

Space Systems Engineering

The Space Systems Engineering MS degree program is intended to provide a command with an officer who has the technical knowledge to plan and manage the development, design, acquisition, operation, tasking and employment of space surveillance, communications, navigation and atmospheric/oceanographic/environmental sensing systems throughout their lifecycle.

Careers for Graduates Include:

- USSTRATCOM Staff Officer
- SPAWAR Space Systems Project Officer
- National Reconnaissance Office
- NETWARCOM Staff Officer
- Joint Space Operations Center (JSPOC) Staff Officer