

Benefits

Knowledge and analytical skills acquired in the Space Systems Fundamentals 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
- Gain knowledge required in corresponding fundamentals section of Space Cadre PQS

Upon completion of the certificate, students will be awarded the 6206-L subspecialty code.

Contact

Program Coordinator
CertProg@nps.edu


Space Systems Fundamentals Certificate Information

Certificate Description
my.nps.edu/web/dl/cert_ss

Certificate Application Information
www.nps.edu/Academics/Admissions/ApplyOnline/ApplyNow.html

Careers for Graduates Include:

USSTRATCOM Staff Officer
SPAWAR Space Systems Project Officer
National Reconnaissance Project Officer
NETWARCOM Staff Officer
Combined Space Operations Center
(CSPOC) Staff Officer

Brochure Produced by: 

CERTIFICATE PROGRAM

SPACE SYSTEMS FUNDAMENTALS



NAVAL
POSTGRADUATE
SCHOOL

Certificate Program

The Naval Postgraduate School offers a certificate program in Space Systems Fundamentals via distributed learning (DL) and/or residence.

Purpose of Certificate

Space assets are essential to modern warfare. This certificate provides the foundation to understand the integration of space capabilities across combined armed forces, involving networks, sensors, and weapons..

Areas of focus include:

- Remote Sensing
- Satellite Communication
- Network Centric Warfare
- Orbital Mechanics
- The Space Environment
- Space Control
- Missile Warning
- Global Positioning System (GPS)

Certificate Courses Include:

- **SS3011**
Space Technology and Applications
 - **SS3613** (FOUO)
Military Satellite Communications (MILSATCOM)
 - **PH3052**
Physics of Space and Airborne Sensor Systems
 - **PH2514**
Intro to the Space Environment
Unclassified Option
- OR
- **SS3051** (Classified Options)
Military Applications of DoD and Commercial
Space Systems Classified Option (SECRET)

Program Eligibility

Active U.S. military officers and enlisted personnel (Tuition is paid for USN/USMC Students), as well as DoD employees and contractors with Command endorsement.

Prerequisites

Baccalaureate degree (B.A. or B.S.), with completion of college-level algebra, geometry, trigonometry, logarithms, and physics (including electricity and magnetism).

Additional Space Systems Programs

Certificates

These certificate programs comprise of four courses. Upon successful completion of the course work, students will be awarded a certificate of accomplishment.

Space Systems Design

Targeted primarily at providing DoD space employees with top-level knowledge in spacecraft design.

Space Nuclear Command, Control and Communications (NC3)

Supports objectives corresponding to required space, ground, and classified elements of USAF Global Strike Command's strategic nuclear education components

Space Control Tactics and Operations

Targeted primarily at providing DoD space employees with an education in rendezvous and proximity operations and space control.

Degrees

Upon successful completion of the degree requirements, students will be awarded an M.S. degree.

Space Systems Operations

This degree 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 sensing systems throughout the mission lifecycle.

Space Systems Engineering

This 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 sensing systems throughout the mission lifecycle.

Find out more about our programs:

nps.edu/web/ssag/degrees-and-curriculum