

## 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

## CONTACT INFORMATION

**PROGRAM COORDINATOR**  
ssCertProg@nps.edu

## SPACE SYSTEMS CERTIFICATE INFORMATION

**CERTIFICATE DESCRIPTION**  
[my.nps.edu/web/dl/cert\\_ss](http://my.nps.edu/web/dl/cert_ss)

**CERTIFICATE APPLICATION INFORMATION**  
[www.nps.edu/Academics/Admissions/ApplyOnline/ApplyNow.html](http://www.nps.edu/Academics/Admissions/ApplyOnline/ApplyNow.html)

Brochure Produced by:

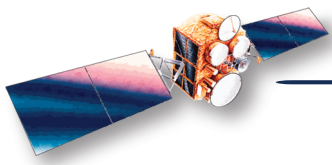
**Naval Postgraduate School's**



Center for Educational  
Design, Development, and Distribution

[www.nps.edu/academics/dl/CED3](http://www.nps.edu/academics/dl/CED3) • 17 May 2017





## CERTIFICATE PROGRAM

The Naval Postgraduate School (NPS) offers a certificate program in Space Systems via distributed learning (DL) and/or residence. To earn the certificate, students 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:

#### REMOTE SENSING

#### SATELLITE COMMUNICATION

#### NETWORK CENTRIC WARFARE

#### ORBITAL MECHANICS

#### THE SPACE ENVIRONMENT

#### SPACE CONTROL

#### MISSILE WARNING

#### GPS

"AFTER FINISHING, I BECAME THE C4I OFFICER ON CCDG STAFF. I'VE BEEN IMMersed FOR MONTHS NOW ENSURING OUR UNITS HAD AS MUCH SATCOM ASSETS AS WE COULD BEG AND BORROW FOR THEM. THE SS3011 COURSE GAVE ME A MUCH BETTER UNDERSTANDING OF SATELLITE ASSETS FOR BOTH MILITARY AND COMMERCIAL. THIS COURSE SHOULD BE REQUIRED FOR ALL NAVAL OFFICERS." - STUDENT

## 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 - UNCLASS Option  
OR

### SS3051

(RESIDENT ONLY)

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)

## 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.

### 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

