

Space Nuclear Command, Control and Communications Certificate Program

The Naval Postgraduate School offers a certificate program in Space Nuclear Command, Control and Communications via distance learning (DL). This asynchronous program covers satellite technology and communication fundamentals relevant to U.S. strategic nuclear operations, deterrence and assurance.

Purpose of Certificate

The Space Nuclear Command, Control and Communications Certificate provides students a basic foundation to understand Space capabilities and their integration into the U.S. NC3 architecture involving networks, sensors and communication fundamentals relevant to U.S. strategic nuclear operations, deterrence and assurance.

Areas of focus include:

- Basics of Space Systems
- Orbital Mechanics
- Military satellite communications
- NC3 system threats and vulnerabilities
- USAF/USN/DoD interests in the US Strategic and Tactical Nuclear enterprise, especially in NC3 related areas

Certificate Courses Include:

- **SS3011**
Space Technology and Applications
- **SS3613**
Military Satellite Communications
- **SS3740**
Nuclear Command, Control, and Communications Systems – Part I
- **SS3741**
Nuclear Command, Control, and Communications Systems - Part II

Program Eligibility

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

Prerequisites

A baccalaureate degree and completion of college-level Algebra II and college-level Physics with a C or better grade average is required.

Additional Space Systems Programs

Certificates

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

Space Systems Fundamentals

Targeted primarily towards employees who may have limited or no space experience.

Space Systems Design

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

Space Control Tactics and Operations

Targeted primarily at providing DoD space employees with a technical 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 an organization with personnel 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 is intended to provide an organization with personnel who have 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



