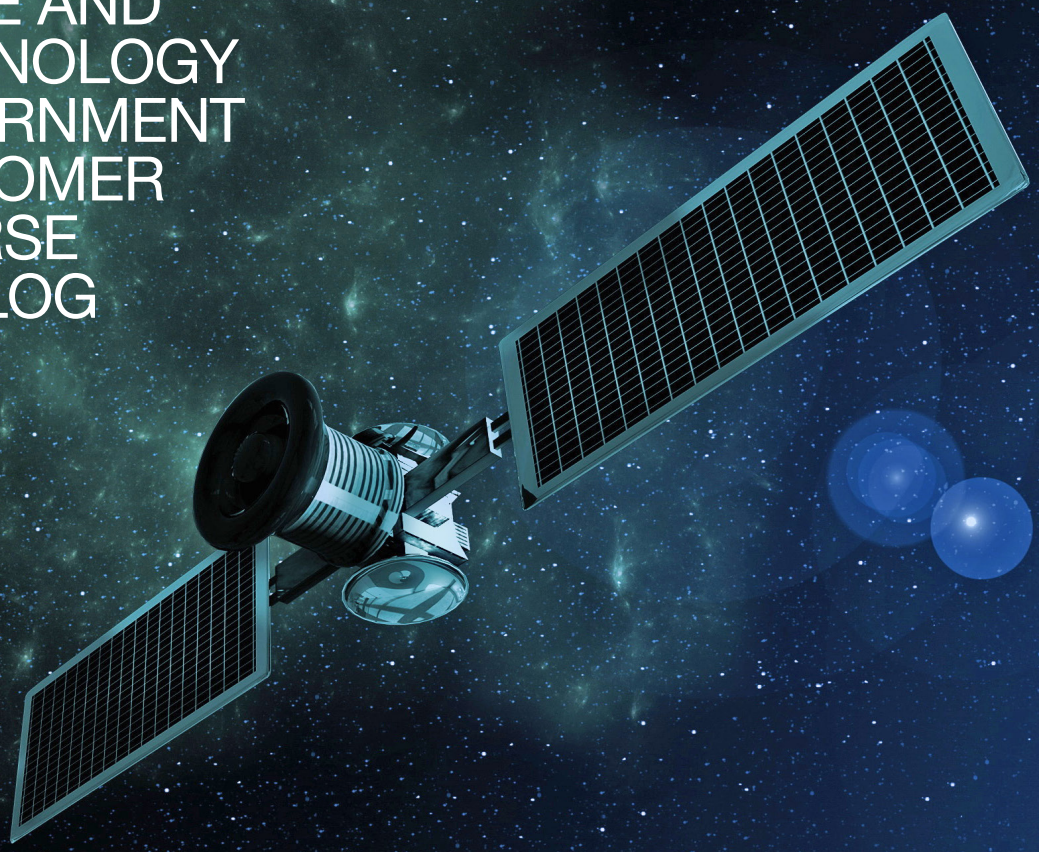
AEROSPACE

2019 SPACE AND TECHNOLOGY GOVERNMENT CUSTOMER COURSE CATALOG



AEROSPACE UNIVERSITY

The Aerospace Corporation is committed to nurturing the next generation of scientists and engineers by sharing the knowledge of our experts. A major way we do this is through Aerospace University, which offers a wide range of courses taught by our experts to our employees. This knowledge sharing also extends to our customers.

We encourage you to browse this catalog to learn more about the courses and curriculum offered with a purpose.

Aerospace University

ELIGIBILITY GUIDELINES

Aerospace government customers may attend selected Aerospace University courses within our technical curriculum on a space-available basis.

Enrollment in a course is processed via self-registration using our learning management system, referred to as the Talent and Learning Center (TLC). Qualified customers may request a TLC account, provided they have an appropriate Aerospace point of contact.

There are two types of customers eligible for participation in courses, and they are defined as follows:

FFRDC

An FFRDC customer is a U.S. Government employee, whether civilian or military, working on a program directly supported by Aerospace under the FFRDC contract. This customer must have an Aerospace counterpart who should be listed as the point of contact on the application for a TLC account. Aerospace's contract with the Air Force to manage the FFRDC specifically enables our FFRDC customers to join our regularly scheduled technical classes.

NON-FFRDC

Non-FFRDC customers are individuals who are employed by U.S. Government agencies that contract directly with Aerospace. Each customer must have an Aerospace counterpart within our Civil Systems Group, who should be listed as the point of contact on the application for a TLC account.

Note that U.S. Government employees who do not fit into one of the above definitions, government contractors, and non-government customers are not eligible to attend Aerospace University classes.

For more information on eligibility, please contact **au.mailbox@aero.org**.

PROGRAMS

Aerospace University maintains a diverse curriculum in the Space and Technology category. Courses are aligned under one or more of the following subjects.

Technical Overviews broadly introduces the domain of space, space missions, systems engineering, and acquisition topics, providing an overview of the workings and management of space systems. Courses and resources at this level are especially beneficial to newcomers—those with little or no background in space systems.

Operating in Space encompasses topics related to space itself. The space environment and astrodynamics may be obvious, but communicating with spacecraft is equally universal, as is the protection of space systems.

Space Missions and Programs addresses specific missions for which space provides unique opportunities, as well as exploration of specific space programs at various levels of depth.

Systems Engineering is a broad subject area that encompasses space system design, engineering, architecture, and other disciplines related to the work of Aerospace. Courses in these categories are intended for those who need to look across several technologies, going into some depth without being technology specific.

Acquisition and Launch addresses many of the unique topics where Aerospace supports the acquisition of space systems. While individual topics may include application of systems engineering disciplines, courses in this subject largely focus on acquisition-unique topics, such as policy, requirements, and programmatic topics, as well as launch.

COURSES

T7240
SPACE SYSTEMS OVERVIEW

Overview

This is a two-day instructor-led course providing a basic introduction to the primary elements of space systems. It investigates their major elements, as well as Aerospace support capabilities.

The course also delves into the history of space systems, and their applications, and key subsystems and their interactions.

Topics

- Space systems history
- The space environment
- Astrodynamics
- Mission types
- Spacecraft
- Payloads
- Launch systems
- Mission operations and ground systems
- Programmatics

TECHNICAL OVERVIEWS

This course is designed for those new to Aerospace, new to space, or unfamiliar with space systems.

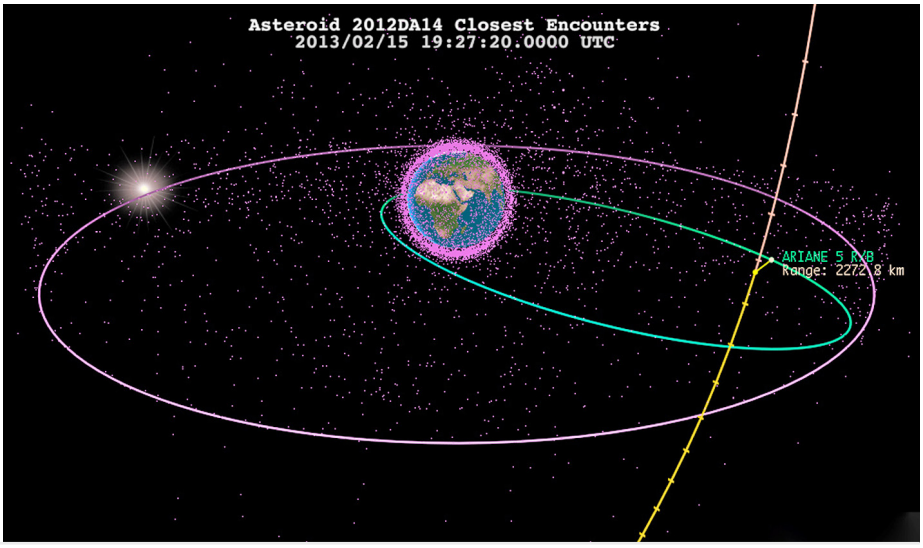
16

TRAINING HOURS

C2315

ORBITAL ANALYSIS AND VISUALIZATION USING SOAP, PART 1

Prerequisite . . . . . **None**
Recommended **T7207**



Overview

The Satellite Orbit Analysis Program (SOAP) is an interactive 3D orbit visualization and analysis program for Windows, Macintosh, Solaris, and Linux-based computers. SOAP is capable of simultaneously propagating satellites, ground stations, aircraft, ships, and planets. In addition to having realtime visualization, it has extensive orbit analysis and output capabilities.

This is a four-hour instructor-led introductory course. It employs a hands-on approach to cover the basics of using SOAP for space-related problem solving and how to generate sophisticated models and images that can be used in documents, presentations, and more.

This course is taught using the Windows version of SOAP in the training lab. Computers are provided, but class members are welcome to bring laptops.

Additional information on SOAP is available at **http://soap.aero.org**.

Topics

- Introduction to the SOAP Software
- Toolbar functions
- Course orbit analysis problem statements
- Setting the epoch
- Adding ground stations
- Adding a Kepler satellite
- Defining a sensor
- Analyses
- Animated XY plots
- Reports
- Model generation
- Adding SOAP images to documents and presentations

OPERATING IN SPACE

This course is for anyone with an interest in orbital simulation and modeling; educators who can use SOAP as a tool for discussing Astrodynamics in the classroom. It is an excellent supplement to T7240 Space Systems Overview.

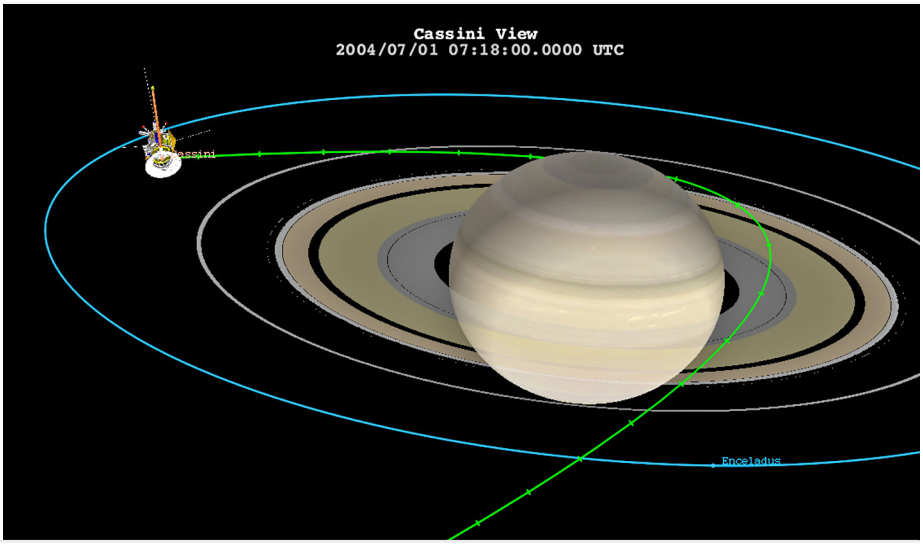
4

TRAINING HOURS

C2316

ORBITAL ANALYSIS AND VISUALIZATION USING SOAP, PART 2

Prerequisite **C2315**
Recommended **T7207**



Overview

This is a four-hour instructor-led course. It combines the SOAP basics introduced in Part 1, with advanced features and capabilities to develop and analyze complex satellite scenarios.

This course is taught using the Windows version of SOAP in the training lab. Computers are provided, but class members are welcome to bring laptops.

Additional information on SOAP is available at **http://soap.aero.org**.

Topics

- Fundamentals of coordinate systems (Basis, Euler)
- World views
- Platform-relative platforms
- 3D models
- Trajectories
- Swaths
- Advanced analyses
- Contours
- Special topics
  - *Importing orbital data*
  - *JPL SPICE files*
  - *Two- or three-line element sets (TLEs)*
  - *Raw ephemeris data*

OPERATING IN SPACE

This course is geared toward orbital analysts interested in learning more about SOAP.

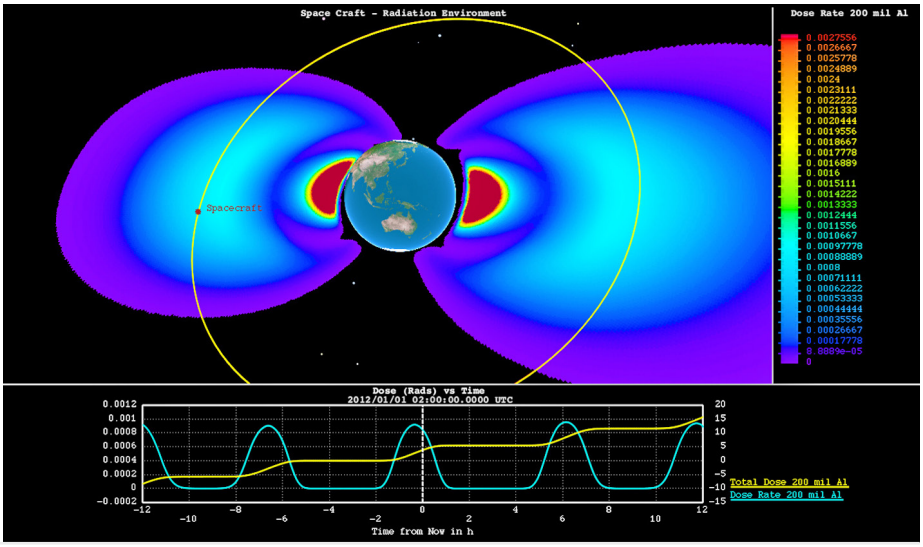
4

TRAINING HOURS

C2317

ORBITAL ANALYSIS AND VISUALIZATION USING SOAP, PART 3

Prerequisite **C2316**
Recommended **T7207**



Overview

This four-hour instructor-led course builds on Orbital Analysis and Visualization Using SOAP, Part 2, and is geared toward very advanced users developing complex scenarios with emphasis on constellations, advanced analyses, group operations and variable platforms, terrain and imagery data, and building a complete ground-based tactical simulation.

This course is taught using the Windows version of SOAP in the training lab. Computers are provided, but class members are welcome to bring laptops.

Additional information on SOAP is available at **http://soap.aero.org**.

Topics

Part 1: Working with multiple satellites

- Importing two- or three-line element sets (TLEs)
- Working with platform groups
- Using the ephemeris data view
- Using the sensor data view
- Using a variable platform with the analyses group

Part 2: Ground-based tactical simulation

- Importing and using high-resolution imagery and terrain data
- Displaying a latitude/longitude grid
- Flying a UAV with the air/ship propagator
- Displaying a 3D model of the UAV

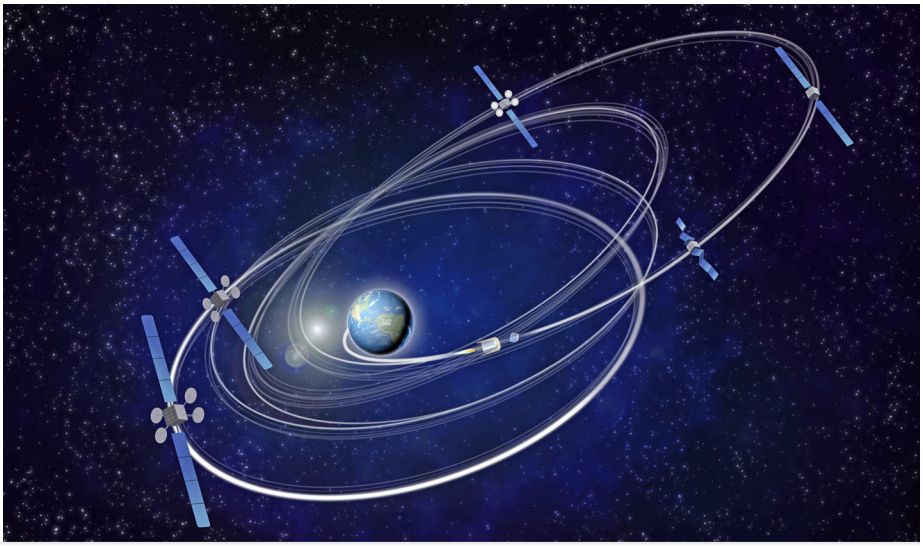
OPERATING IN SPACE

This course is geared toward orbital analysts interested in learning more about SOAP.

4

TRAINING HOURS

T7207
ORBITAL MECHANICS: INTRODUCTION



Overview

This two-day instructor-led course introduces key concepts in orbital mechanics, including orbit geometry, maneuvers, perturbations, ground coverage, constellations, propagation, determination, and disposal. It focuses on anchoring concepts while maintaining technical rigor.

Topics

- History of orbital mechanics
- Orbit terminology
- How orbits behave near Earth
- How mission requirements translate into orbit and constellation design
- How to interpret orbit analyses
- Introduction to conic sections and orbits
- Orbital maneuvers
- Orbit perturbations
- Advanced orbits
- Ground tracks
- Coverage
- Constellations
- Orbit determination and two-line element sets (TLEs)
- Tools and propagators
- Debris
- Problem-solving approaches

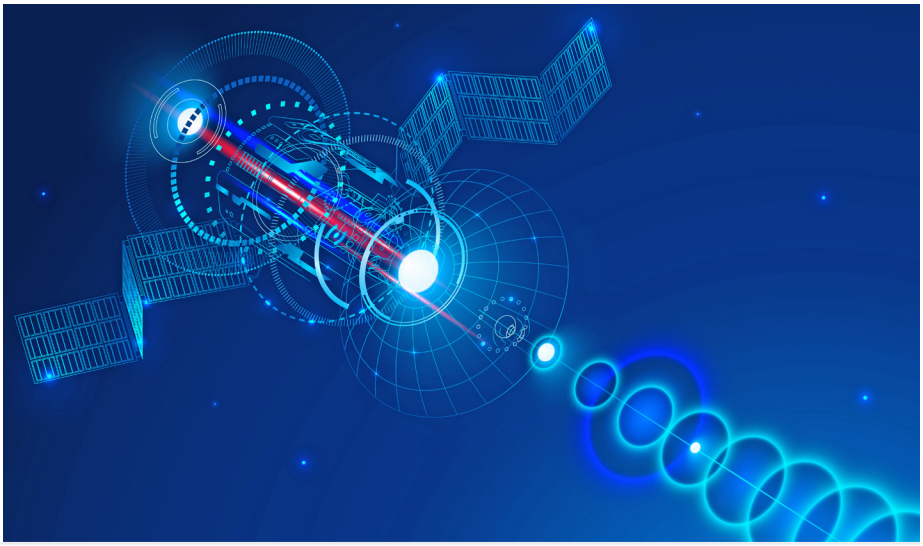
OPERATING IN SPACE

This course will benefit technical personnel needing an introduction to the principles of orbital mechanics and their application to space missions.

16

TRAINING HOURS

S4940
SPACE AS A WARFIGHTING DOMAIN



Overview

This TS/SCI classified three-day course addresses a wide range of topics fundamental to space as a warfighting domain and combat space operations in the space domain. Leveraging Aerospace's expertise in space security and cyber, the course will survey space policy and law, key concepts in orbital mechanics, and practical application of rendezvous and proximity operations. Additionally, current and future threats to space will be examined through a technical lens.

The goal of this course is to broaden perspective for those not regularly engaged in daily space operations. It will immerse participants within the warrior ethos required to fight and win a war in space.

Topics

- Fundamentals of space policy and law/rules of engagement
- Fundamentals of orbital mechanics
- Rendezvous and Proximity Operations (RPO)
- Examination of current and future threats to space systems
- Space protection awareness/resiliency
- Space situational awareness
- Space cyber awareness
- Space battle management and command and control (C2)
- Joint space warfighter planning

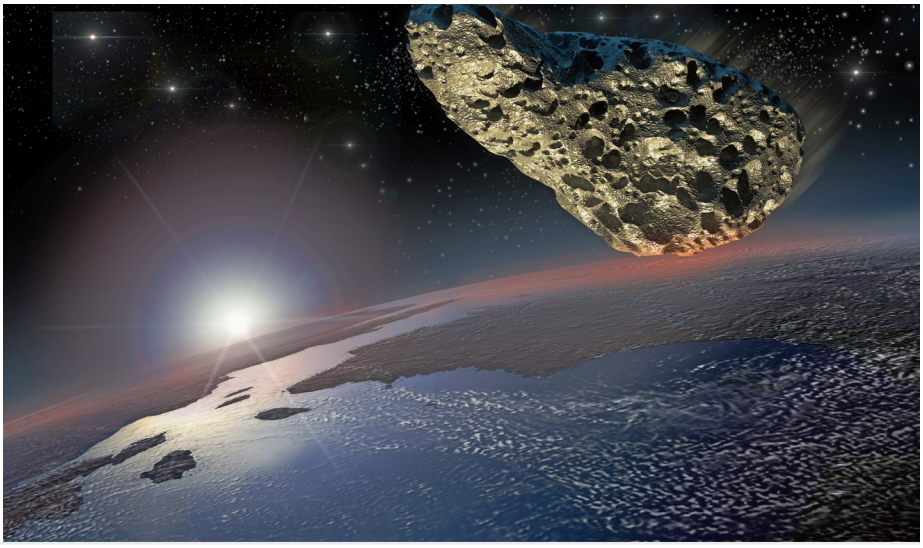
OPERATING IN SPACE

The course assumes a basic understanding of space systems. It is designed for those who support space systems under development and currently in operation. A verified TS/SCI clearance is required. To allow for verification, registration closes about one week before scheduled events.

24

TRAINING HOURS

C2320
ASTEROID DEFLECTION SIMULATOR: HANDS-ON



Overview

Near-Earth objects (NEOs), such as asteroids and comets pose a local, regional, or national security threat. Although significant NEO impacts are infrequent, the consequences could be severe. Awareness of oncoming significant NEOs is desired. In that situation, the Air Force would likely launch a mission to deflect or disrupt the object, and Aerospace would probably support the effort. The purpose of this class is to introduce the nature of the NEO threat and its mitigation.

In this one-day hands-on class, students use a NEO mission simulator developed by Aerospace and NASA/JPL to gain insight into the challenges involved with the high-energy kinetic-impact method of asteroid deflection. Students select a NEO from a set of simulated objects created by JPL, identify feasible launch windows, and design a deflection mission. Challenged with difficult threat scenarios, students try to find feasible deflection solutions and learn of our abilities and gaps in mitigating the threat. No programming skills are required.

Topics

- Introduction to the NEO impact threat and consequences and response options
- Instructor-led NEO deflection demonstration
- The nature of NEOs and their threat
- Student hands-on NEO deflection sessions
- Current preparedness limitations to the NEO threat
- Set objectives for improving the state of readiness

OPERATING IN SPACE

This course is for those interested in the challenges of high-energy kinetic-impact method of asteroid deflection

5½

TRAINING HOURS

T4265
CYBER ACROSS THE SPACE SYSTEM LIFECYCLE

Overview

This two-day course gives acquisition and development engineers who are not cyber experts the skills needed to recognize potential cyber vulnerabilities in their systems as they proceed through the acquisition process. With cyber being such a large part of space systems in today's world, it will help students to know when cyber experts should be called in for support. The course also provides references to the body of cyber knowledge (standards, regulations, instructions, policy, handbooks, Aerospace reports, etc.) that informs and governs the corporation's acquisition work. Students will learn the key program office and ETG tasks and recommended deliverables across the space system lifecycle.

Topics

- What "cyber" means and all it encompasses
- Refresher on space cyber threats and vulnerabilities
- Overview of cyber challenges and current practices
- Different customer approaches to lifecycle management
- Addressing cyber issues in the space system lifecycle
- The importance of cyber security in space system acquisition
- Cyber resiliency
- Common development practices from a cyber perspective
- When to engage cyber experts

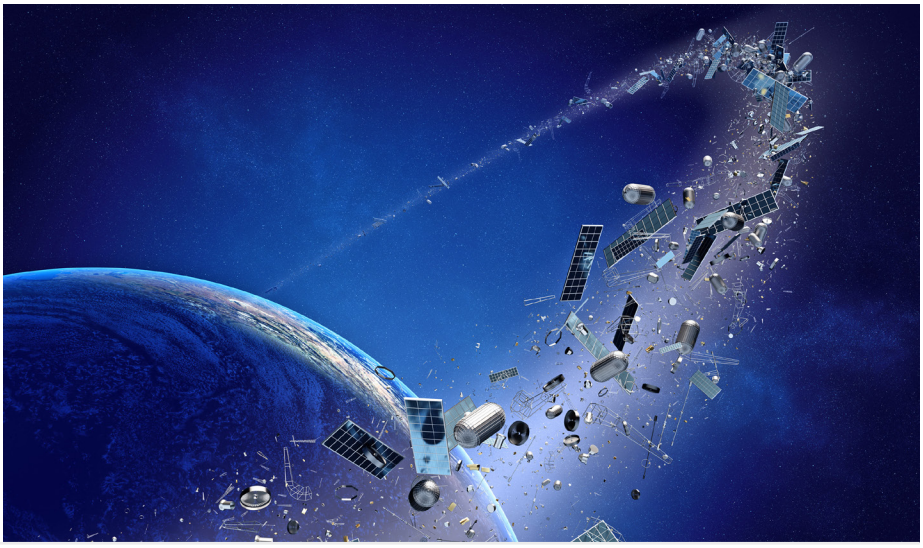
OPERATING IN SPACE

This course is geared toward acquisition and development engineers who are not cyber experts in recognizing potential cyber vulnerabilities during the acquisition process.

12

TRAINING HOURS

T1160
SPACECRAFT ENVIRONMENTAL HAZARDS



Overview

The effects of space weather on satellites can range from subtle to profound. Sensor degradation, subsystem failure, loss of data, and even loss of mission have resulted from the complex interactions between space vehicles and the charged particles in the space environment. This one-day course identifies areas for concentrated effort and provides specific recommendations to address space environmental hazards primarily during system acquisition. Discussion includes an overview of the range of environments, the impacts of these environments on satellite operations, and lessons learned by satellite builders and operators. Case studies and in situ observations illustrate the hazards and mitigation strategies.

Note: Sessions may be offered at a classified level.

Topics

- Impacts on space systems caused by the space radiation environment
- Sources of near-Earth space radiation environment
- Mitigation tools and techniques
- Alternative mitigation strategies
- Programmatic challenges to GPS
- Space hazards, including spacecraft charging, single-event upsets, total radiation dose, and ionospheric effects

OPERATING IN SPACE

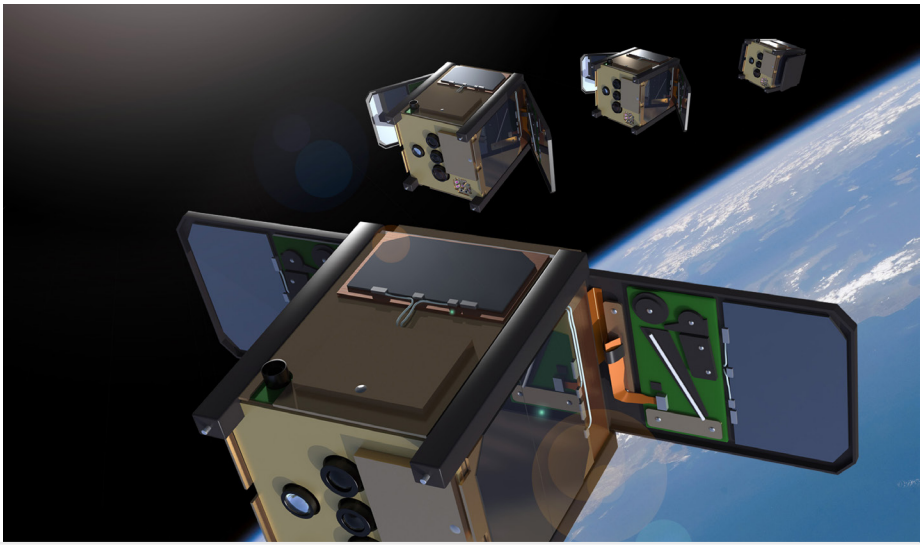
This course is for those responsible for space missions, space systems architecting, engineering, and operations.

8

TRAINING HOURS

T1055
SMALL SATELLITES

AN OVERVIEW OF HISTORY, CAPABILITIES, AND THE AEROSPACE PICOSATELLITE PROGRAM



Overview

Out of some 285 spacecraft launched in 2014, more than 160 of them were CubeSats. This one-day seminar provides an overview of small satellites in general and CubeSats in particular: a satellite in a 10 cm cubical form factor and mass of ~1 kg that performs missions heretofore flown only on platforms orders of magnitude larger. CubeSats can take high-resolution images of the Earth, track other objects in space, transmit data at high rates using lasers, maneuver with high- or low-thrust propulsion, and much more. In this course, participants will become familiar with the history of CubeSats, how satellite subsystems (such as three-axis attitude control and propulsion) operate and are designed to fit into a box the size of a softball, how program management and mission assurance are applied to a CubeSat-class spacecraft, and how a CubeSat is operated on orbit, with a particular emphasis on the CubeSat and picosatellite activities at The Aerospace Corporation.

Topics

- Small satellite definitions
- Small satellite history
- Aerospace's role in small satellites
- Satellite orbits
- Small satellite systems and subsystems
- Regulatory requirements
- Program management
- Mission assurance
- Mission operations
- Small satellite missions
- The future of small satellites
- So you want to fly a CubeSat?
- How using CubeSats differ from a traditional space mission

SPACE MISSIONS AND PROGRAMS

This course is designed for those who would like an introduction to the history and capabilities of small satellites.

8

TRAINING HOURS

T2080

ADVANCED EHF PROGRAM: AN OVERVIEW

Overview

This one-day course introduces the Advanced Extremely High Frequency (AEHF) military satellite communications program, which is designed to provide survivable, global, secure, protected, and jam-resistant communications for high-priority military ground, sea, and air assets. The seminar pays particular attention to the novelty of the program, including spot-beam downlinks and crosslinks between satellites, the protected communications technology, and its applications to other programs. The course is held at an unclassified level.

Topics

- Protected satellite communications at Extremely High Frequency (EHF)
- Legacy systems
- Innovative technologies developed for AEHF
- System characteristics
- Space vehicle description
- Payload description
- Terminal
- Control
- Operations
- Performance
- Factory and on-orbit verification methods
- Tradeoffs using other technologies for accomplishing the EHF mission

SPACE MISSIONS AND PROGRAMS

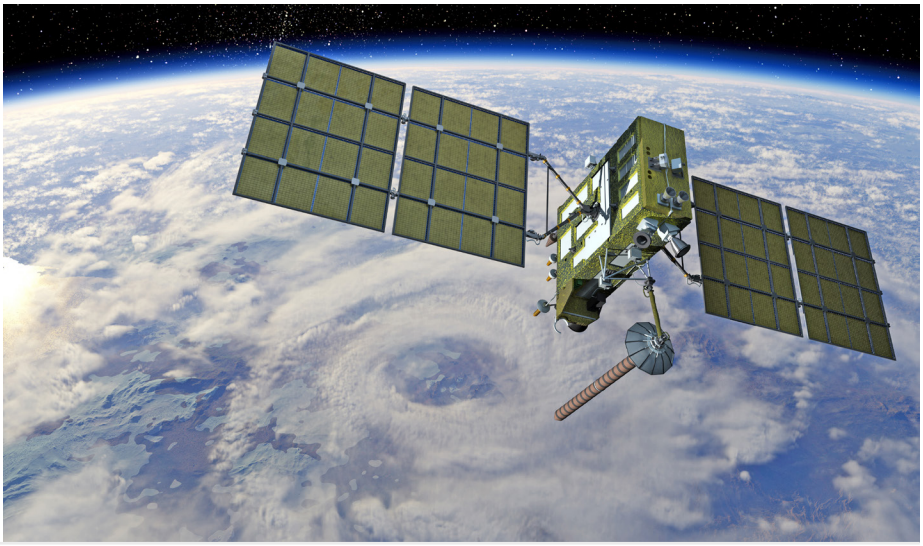
This course is for those who want an introduction to the Advanced Extremely High Frequency (AEHF) military satellite communications program.

6

TRAINING HOURS

S4215

GLOBAL POSITIONING SYSTEM (GPS): AN INTRODUCTION



Overview

This half-day course introduces participants to the technical and programmatic fundamentals of the Global Positioning System (GPS)—its origins, architecture, acquisition, deployment, operations, applications, and management. It will also provide an overview of the organizational aspects and mission of the GPS program.

Topics

- How GPS receivers determine a user's location from satellite signals
- GPS signals
- The sources of error in GPS signals
- GPS system
- GPS challenges

SPACE MISSIONS AND PROGRAMS

This course is geared toward government customers who need basic information about the acquisition and operation of the GPS.

3½

TRAINING HOURS

S4220

GLOBAL POSITIONING SYSTEM (GPS): A MORE IN-DEPTH LOOK

Overview

This three-day course will explore technical and programmatic details of the Global Positioning System, providing participants with detailed insight into GPS at the program, system, and subsystem levels.

Note: A portion of this class is held at the **SECRET** level. Students must have a Secret clearance to attend. Participants without an appropriate and verified clearance will not be permitted to participate in the last four-hour session of the class.

Topics

- Signals in space: spreading codes, navigation messages
- GPS signals
- GPS engineering
- Orbit determination
- Error sources
- Systems engineering overview
- Critical interfaces
- Ground segment overview
- Space segment overview
- User segment overview
- Navigation exercise
- System security and NAVWAR
- Constellation management
- Space-based atomic clocks
- Augmentation systems and other GNSS
- Future systems

SPACE MISSIONS AND PROGRAMS

This course designed for those who want detailed insight into the technical and programmatic aspects of the Global Positioning System. Note for the last four hours participants must have a Secret clearance.

24

TRAINING HOURS

T7300

WHY SATELLITES FAIL: LESSONS FOR MISSION SUCCESS

Overview

Satellite failures are primarily caused by subtle engineering mistakes in all development stages—from design and analysis through manufacturing, coding, testing, and operations. This one-day course uses lessons learned from past failures to familiarize students with the good engineering practices necessary to ensure mission success.

Topics

- Overview of failure statistics, lessons learned, and key review questions
- Technical baseline management
- Fault analysis
- Ground operations
- Ground testing
- On-orbit troubleshooting
- Mission assurance resources
- Good engineering practices in systems development

SPACE MISSIONS AND PROGRAMS

This course will benefit engineering and technical staff members at all levels.

8

TRAINING HOURS

S2020
SPACECRAFT SYSTEMS DESIGN

Overview

The Spacecraft Systems Design course is a three-day experience that provides an overview of space systems ranging from microsatellites to large national systems and explains how they are conceived during the conceptual design phase. Students will be instructed by experienced systems engineers and subsystem specialists and will learn the processes used to go from requirements to an initial conceptual design. The course includes hands-on exercises where students will use conceptual design tools similar to those used by Aerospace's Vehicle Concepts Department and will also participate in a spacecraft design session in Aerospace's Concept Design Center.

Topics

- Spacecraft systems overview
- ORS-1 overview
- Communications payload/TT&C
- CEM orientation exercise
- Communications payload design exercise
- Conceptual design processes and subsystem introduction
- Astrodynamics
- Command and data handling
- Attitude determination and control
- Propulsion
- Thermal
- Power
- Spacecraft conceptual design exercise
- Structures
- Software
- Introduction to the Concept Design Center
- Concept Design Center exercise

SYSTEMS ENGINEERING

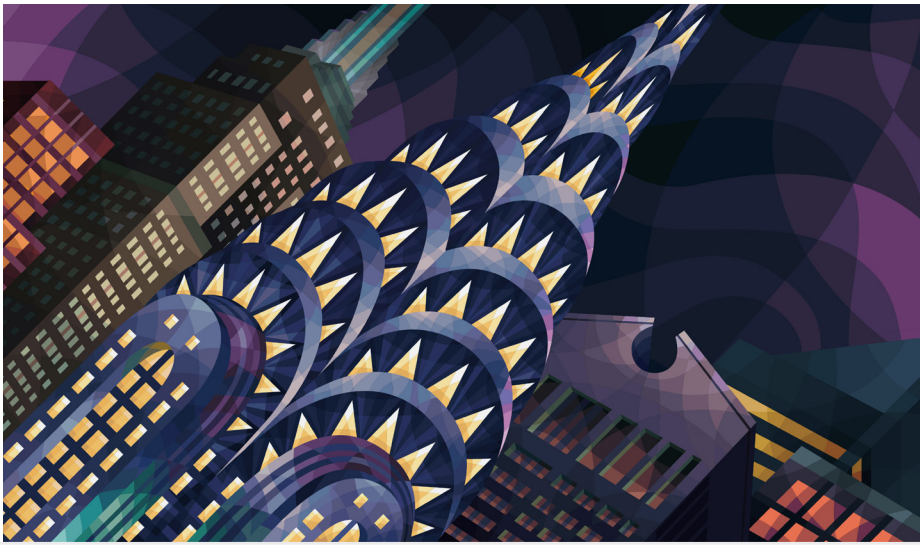
This course is geared toward program managers and engineering analysts who support acquisition activities related to space system design and planning.

24

TRAINING HOURS

S4600

THE ART AND SCIENCE OF SYSTEMS ARCHITECTING



Overview

This one-day course presents the core concepts of systems architecting. It lays out the models and views used in architecting and specifically examines applications to distributed systems of systems. Case studies demonstrating the architect's role are featured along with the history of architects in successful systems.

Topics

- Definitions and basics: what are architects, architectures, and architecting?
- Architecting methods: how to develop an architecture
- Architecture descriptions: representing architectures through models
- The architect's relationships
- Categories of systems and information technology
- Methods for integrating soft or heuristic approaches
- The role of architecture and architecting in emerging systems of systems
- Practical strategies for managing architectures and architects

SYSTEMS ENGINEERING

This course will benefit anyone involved in systems architecting.

8

TRAINING HOURS

S2035
SYSTEM TEST AND EVALUATION

Overview

This one-day class examines basic concepts of systems test and evaluation (T&E). We'll explore T&E processes and discuss T&E planning from inception through operational acceptance. We'll also look at T&E roles and responsibilities for the development contractor, the Government, support services contractors, and Aerospace.

This class will help students understand purposes, organizations, and processes associated with planning and execution of T&E supporting program acquisition and system sustainment.

Topics

- T&E Planning
- Roles and responsibilities
- Best practices

SYSTEMS ENGINEERING

This course is for anyone involved with systems test and evaluation, program acquisition, and systems sustainment.

8

TRAINING HOURS

S2033

SPACE SYSTEMS INTEGRATION

Overview

This class (offered either as one day or two half-days) examines basic concepts of systems integration (SI) and provides descriptions of the processes, techniques, and tools available to execute SI. It begins with definitions of what makes up a system and identifies the various aspects of SI. These aspects include operational, organizational, functional, schedule, and physical integration. We will include practical methods for developing and using a System Integration Plan, along with considerations for the situation of the Government as System Integrator. The course also addresses roles and responsibilities for executing SI as an adjunct to other systems engineering and test responsibilities.

Topics

- Integration: hardware, software, processes
- Practical integration
- Roles and responsibilities
- Planning and products

SYSTEMS ENGINEERING

This course will benefit anyone interested in the basics of space systems integration.

8

TRAINING HOURS

S3073
TEST LIKE YOU FLY

Overview

The "Test Like You Fly" (TLYF) process discussed in this one-day (or two consecutive half-days) course is based on an approach that is broader than "test." It provides an introduction to a codified, 7-step process, specifically defined here as a prelaunch/pre-operational systems engineering process translating mission operations concepts into perceptive operationally realistic tests. The process includes a method to identify latent mission-critical flaws and assesses the risk of missing those flaws when it is not feasible to do flight/missionlike tests or adequately represent key mission characteristics while executing such a test. The course also addresses roles and responsibilities for executing the TLYF process.

Topics

- The value of applying the TLYF process in the context of systems engineering and mission assurance
- The TLYF process implementation steps, their interactions, and expected results/products
- Using the process to influence programmatic decisions
- The distinctions between the tests formed from the TLYF process and other test techniques/methods
- Applying the TLYF process to space, launch, and ground system development projects
- Further refinement and application of the TLYF process

SYSTEMS ENGINEERING

This course is designed for anyone involved in prelaunch/pre-operational systems engineering.

8

TRAINING HOURS

T3010

ENVIRONMENTAL TEST REQUIREMENTS FOR SPACE VEHICLES

Overview

Designed for program office personnel, this course examines essential environmental test requirements for space vehicles. It is designed to ensure that program office personnel understand how to manage environmental test risk in a team setting. Course modules and materials are based on applicable corporate-recommended command media and are closely coupled to the Mission Assurance Baseline. Case studies, examples, and hands-on exercises are used to illustrate critical concepts and explore the trades for why specific approaches are recommended. The course covers effective implementation of ETG resources and tools and appropriate use of supporting data. To earn course credit, students must complete a final comprehension test.

Topics

- Introduction and overview of environmental test requirements
- Dynamic, structural, thermal, pressure, and electromagnetic test requirements in MIL-STD-1540E
- Implementing MIL-STD-1540E from a program office perspective
- Representing residual test risk
- Tailoring requirements to specific programs
- The Environmental Test Thoroughness Assessment methodology
- The responsibilities of the joint program office/ETG implementation team

SYSTEMS ENGINEERING

This course is for current or prospective program office personnel with relevant job functions, particularly those with responsibility and accountability for implementing MIL-STD-1540E.

8

TRAINING HOURS

S4440

SOFTWARE ARCHITECTURE AND APPLICATION TO SPACE SYSTEMS

Overview

This one-day course provides an introduction to software architecture and its relevance to space programs. It introduces various ways of describing and evaluating software architecture, with practical examples based on program experiences.

Topics

- Software architecture and program success
- Describing software architecture
- Techniques for evaluating software architecture
- Understanding the influence of software architecture on program success
- What information should be included in a software architecture description and various description approaches
- Where to go for more information and help

SYSTEMS ENGINEERING

This course benefits program, product, and acquisition managers; systems and software engineers; and engineers accountable for systems that interface with software.

8

TRAINING HOURS

S4150

AN INTRODUCTION TO LAUNCH SYSTEMS

Overview

This one-day course introduces launch vehicles and how they work from both technical and operational perspectives. The course begins with a discussion of space launch principles and an examination of subsystems. Following the technical engineering topics, the discussion turns to launch vehicles in the broader context of mission design and integration, launch facilities, and current and future launch vehicle capability developments.

Topics

- Analyze launch systems in relation to achieving mission objectives
- Summarize how the principles of space launch are related to launch vehicle design
- Describe the functions of launch vehicle subsystems
- Explain the interdependencies between subsystems
- Discuss launch vehicle considerations involved in mission design and integration
- Describe launch facilities and launch range operations
- Identify emerging changes taking place in the launch industry

ACQUISITION AND LAUNCH

This course is geared toward technical staff needing a broad overview of space launch and launch systems.

8

TRAINING HOURS

S4668

BUILDING BETTER REQUIREMENTS WORKSHOP

Overview

DoD space acquisition technical requirements are written to convey the needs of an acquisition program to the contractor community in requests for proposals, contracts, and other documents. The clarity, feasibility, and overall implementability of these requirements are critical to getting a program off to the right start toward mission success.

This workshop helps participants learn how to write and assess the type of requirements commonly referred to as “user requirements,” or “stakeholder requirements.” It explains the essential elements of these requirements and what it means to be implementable. Much of the workshop time will be spent in student exercises to develop and analyze requirements using a standardized methodology. It is intended to have universal applicability beyond DoD and focuses on the content and mechanics of individual requirements statements independent of the government requirements processes.

Topics

- A universally applicable set of terms for requirement statements and criteria for user requirements
- The levels and types of requirements, and requirements-related terminology
- Elements of a user/stakeholder-level system performance requirement
- What it means for a requirement to be implementable
- Inputs necessary for developing system performance requirements
- A systematic process to develop and assess requirements
- How to craft implementable system performance requirements and sets of requirements
- Critical assessment requirements for implementability

ACQUISITION AND LAUNCH

This course is designed for those supporting the system user community, Air Force System Program Offices, and other related acquisition programs.

8

TRAINING HOURS


AEROSPACE