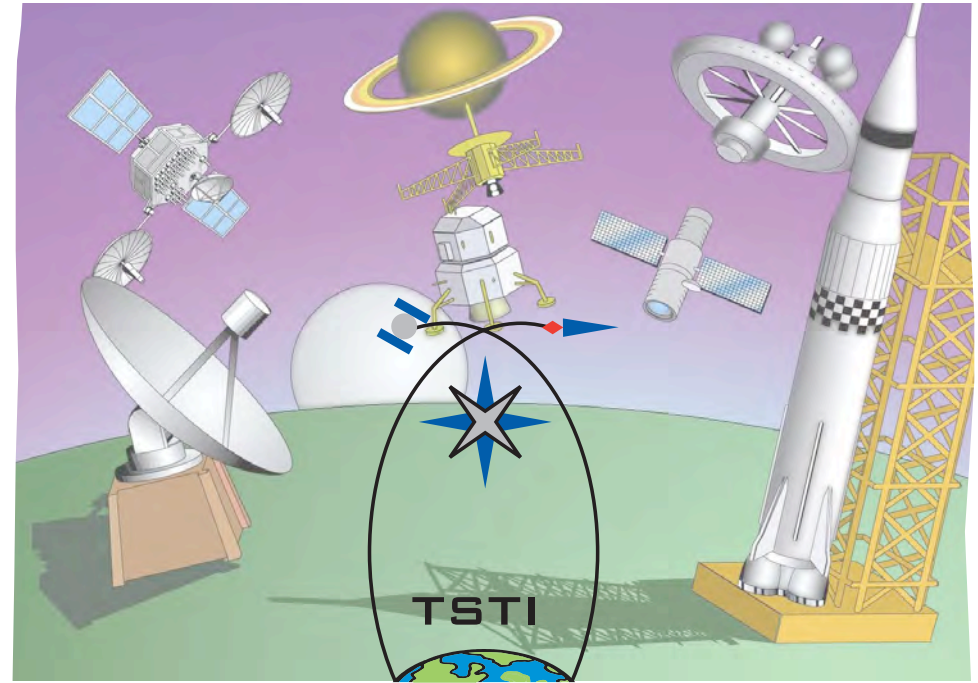


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Understanding Space (2 days)

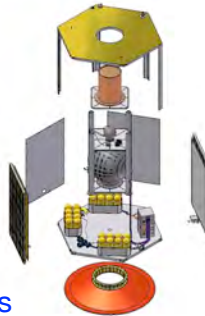
An Introduction to Astronautics and Space Systems Engineering. At the end of this course you should walk away with...

- A solid foundation of space fundamentals, including concepts, vocabulary and applications
- A “gut feel” for the complex trade-offs needed to develop a viable space mission
- An organized framework for future space learning

Designing Space Missions & Systems (3-5 days)

An Integrated Systems Engineering Approach. At the end of this course, you'll walk away with...

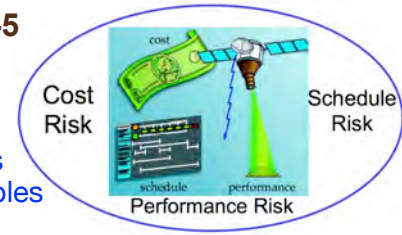
- Enhanced understanding of the big picture of space missions and systems
- A detailed working knowledge of how all the elements of a space mission work and the key trades that lead to a successful mission
- Practical experience with using data and systems engineering processes in the Space Technology Series to develop conceptual designs for space missions and systems



Applied Space Systems Engineering (3-5 days)

Systems Engineering *Beyond* the Process

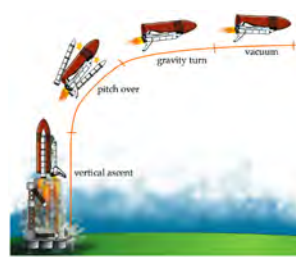
- Design, Realize and Manage Space Systems
- Real-world applications with practical examples and exercises



Space Launch & Transportations Systems (3 days)

At the end of this course you should walk away with...

- An end-to-end systems engineering perspective on designing, developing, and operating space launch systems and space transportation systems
- A keen appreciation for strategies to implement cost-effective concepts and designs
- A “gut feel” for the complex trade-offs



Space System Verification & Validation (3-4 Days)

A Satellite Hardware Laboratory using the EyasSAT® Educational Satellite System. At the end of this course you'll be able to...

- Describe various methods of verification, know when they are appropriate
- Apply V&V processes and techniques in a hands-on workshop associated with a realistic system of interest
- Use applicable NASA, DoD or ESA Standards and lessons learned to support system validation and verification decisions and activities



Learn more at:
www.EyasSAT.com

Human Spaceflight in cooperation with former astronaut Jim Voss (3-5 days)

Mission Analysis and Design. At the end of this course, you will be able to...

- Translate mission objectives, requirements and constraints into visible and cost-effective operations concepts
- Understand the space environment and its impact on humans and hardware
- Apply the physiology of spaceflight and human factors to detailed mission design



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- SYS 650 System Architecture and Design
- SYS 632 Designing Space Missions and Systems
- SYS 633 Mission and Systems Design Verification and Validation (V&V)

Other Courses Through TSTI

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- Satellite Operations: A Day in the Life of a Satellite Operator
- Understanding Flight – An Introduction to Aeronautics

