

# Registration Form

PLEASE - notify us if you have any dietary restriction, require wheelchair access, or other accommodations.

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Position: \_\_\_\_\_

Citizenship: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Business Phone: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Mail fee along with this form to:

**Office of Continuing Education**  
**The University of Tennessee Space Institute**  
 Becky Stines, MS 15  
 B. H. Goethert Parkway  
 Tullahoma, Tennessee 37388-9700  
 Ph: (931) 393-7276  
 Fax: (931) 393-7433  
 Toll Free: 888 822-8874 ext. 37276

**CERTIFICATES OF CONTINUING EDUCATION  
 UNITS (CEUs) WILL BE PRESENTED FOR  
 ATTENDING THIS COURSE.  
 UT IS ABET ACCREDITED.**

## Introduction to Space Test

September 8-9, 2011

\$950.00

### METHOD OF PAYMENT

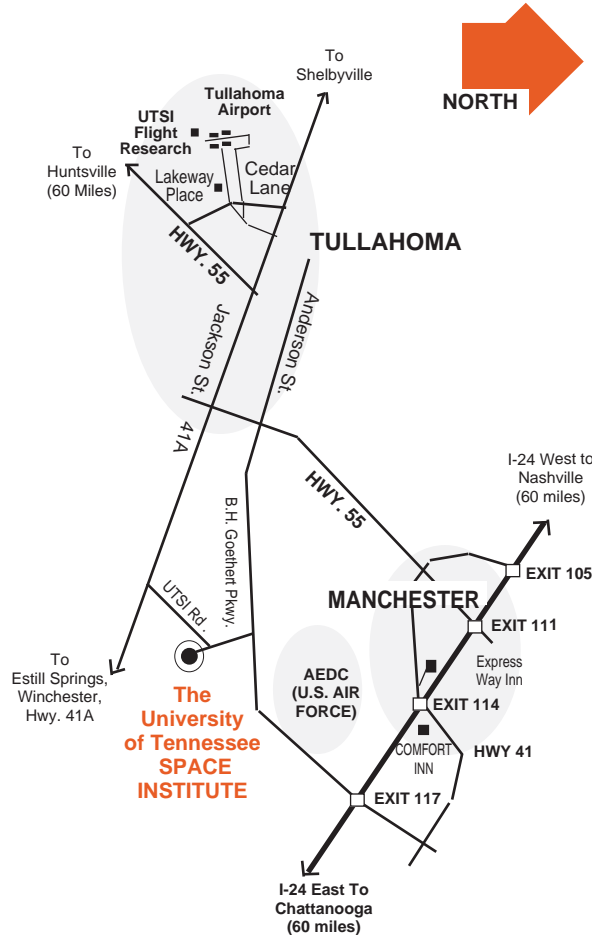
Check or Money Order Payable to:  
**The University of Tennessee Space Institute**

VISA  MasterCard  Discover

Account Number \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

# Location Map



Non-Profit-Org.  
 U.S. Postage  
**PAID**  
 Permit No. 18  
 Tullahoma, TN 37388

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E02-4005-005-011

The University of Tennessee  
 Space Institute  
 Tullahoma, Tennessee 37388-9700

Short Course:  
**Introduction to Space Test**  
 September 8-9, 2011  
[www.utsi.edu](http://www.utsi.edu)

# THE UNIVERSITY of TENNESSEE Space Institute

Office of Continuing  
 Education offers



# INTRODUCTION TO SPACE TEST

UT SPACE INSTITUTE  
 AVIATION SYSTEMS PROGRAM

[www.utsi.edu](http://www.utsi.edu)

**September 8-9, 2011**

Course Instructor:  
**Dr. Stephen Corda**

EARLY RESERVATIONS ARE SUGGESTED  
 - Please Forward To Departments Working In This Field -

## INTRODUCTION TO SPACE TEST

September 8-9, 2011

### Course Description

This course will provide an introduction to some of the unique skills, training, and knowledge required to act as a crew member in a professional space test environment. These skills are common to many of those used in the profession of Flight Test Engineering. This 2-day course will include one day of academics and one day of “hands-on” experience flying as a crew member in two different high performance aircraft.

The first day will include all academic lectures and pre-flight briefings. The second day will be an enjoyable “flight day” where everyone will be actively involved with flight operations for the day. Every course participant will fly in the UTSI Piper Saratoga and the UTSI Extra 300 aircraft, acting as a crew member in completing mission learning and training objectives. For both flights, emphasis is placed on safety and aircrew comfort to ensure and maximize the learning value and enjoyment.

The Systems Monitoring / Data Acquisition (SM/DA) Local Area Orientation (LAO) Flight will be in the UTSI Piper Saratoga. The Piper Saratoga is a high performance single-engine, six-place, low wing aircraft. Groups of three crew members will fly with a UTSI Test Pilot and Flight Test Engineer on an approximately 2-hour long flight. Each crew member will receive a thorough pre-flight briefing to familiarize them with the aircraft, its systems, and emergency egress procedures. The flight will include an introduction to in-flight test conduct and communications, in-flight systems monitoring and data collection, and exposure to a crew team test environment.

The Sub-Orbital Launch / Low and High-G Flight will be in the UTSI Extra 300 aerobatic aircraft.

The Extra 300 is single engine, 2-seat, unlimited aerobatic aircraft. Each crew member will receive a thorough pre-flight briefing to familiarize them with the aircraft, its systems, and with emergency egress procedures including use of an emergency parachute. The flight will include an introduction to high and low-g’s, negative g-flight, unusual attitudes and attitude awareness training in a sub-orbital / space flight type flight profile, and simulation of portions of a sub-orbital type flight profile.

### Course Capacity

A maximum of 6 participants will be admitted for each course.

### Flight Sessions

Each course participant will have two flights. The flights include the following.

- Systems Monitoring / Data Acquisition (SM/DA) Local Area Orientation (LAO) Flight in the UTSI Piper Saratoga
- Sub-Orbital Launch / Low and High-G Flight in the UTSI Unlimited-aerobatic Extra 300

### About the Instructors

The instructors for the course are the Faculty and Staff of the UTSI Aviation Systems and Flight Research Program, including Dr. Stephen Corda, Mr. Borja Martos, Mr. Devon Simmons, Mr. John Muratore, and Dr. Peter Solies. Collectively, the Aviation Systems team has many decades of both flight and space related test, operational, and research experience with NASA, the U.S. Air Force and Navy, NOAA, and many major organizations in the aerospace industry. This experience spans a diverse range of areas including general aviation certification testing, high-performance military flight testing, and major space-related efforts such as the Space Shuttle and other major access to space efforts.

### Course Schedule

(NOTE: All Times are Central Time Zone)

#### Day 1

9:00	Registration
<b>INTRODUCTION &amp; ACADEMICS</b>	
9:30 - 10:00	Welcome and Course Overview
10:00 - 11:00	The Space Environment
11:00 - 12:00	Physics of Space Access and Space Vehicles
12:00 - 13:30	Lunch
<b>FLIGHT PREPARATION</b>	
13:30 - 14:15	Airmanship and the Test Environment
14:15 - 14:30	Local Area Orientation (LAO)
14:30 - 14:45	Aircraft Familiarization (Saratoga)
14:45 - 15:15	Flight Briefing: SM/DA and LAO Flight (Saratoga)
15:15 - 15:45	Break
15:45 - 16:00	Aircraft Familiarization (Extra 300)
16:00 - 16:30	Flight Briefing: Sub-Orbital Launch / Low and High-G Flight (Extra 300)
16:30	Adjourn and Welcome Social

#### Day 2

##### FLIGHT DAY

8:00 - 11:00	SM/DA and LAO Flight (Saratoga): Mission #1
8:00 - 9:00	SOL / Low & High-g Flight (Extra 300): Mission #1
9:00 - 10:00	SOL / Low & High-g Flight (Extra 300): Mission #2
10:00 - 11:00	SOL / Low & High-g Flight (Extra 300): Mission #3
11:00 - 13:00	Lunch
13:00 - 16:00	SM/DA and LAO Flight (Saratoga): Mission #2
13:00 - 14:00	SOL / Low & High-g Flight (Extra 300): Mission #4
14:00 - 15:00	SOL / Low & High-g Flight (Extra 300): Mission #5
15:00 - 16:00	SOL / Low & High-g Flight (Extra 300): Mission #6
16:00	Course complete and awarding of Certificates

## Office of Continuing Education

Reservations may be made by using the registration form. The registration fee of \$950.00 includes all necessary supplies. Early reservations are recommended. Refund of registration fee can be made if cancellation notice is received ten working days prior to beginning of the course. Cancellation received less than 10 working days prior to the course will be assessed 20% of the registration fee. Registration within the **10 working days prior to the course** is also subject to the same cancellation policy. Substitution may be made at any time.

Please register by mail, fax, or telephone. A telephoned, mailed, or faxed reservation made **by an official training office** is considered a firm registration and cancellation policy will apply. A letter of acknowledgment will be mailed to the individual for whom the reservation is made, or to the training office, as we are instructed. Class size will be limited to ensure optimum interaction among participants. UTSI reserves the right to cancel the course. The liability of The University of Tennessee Space Institute is limited to the registration fee. UTSI will not be responsible for airline ticket cancellation fees or any other expenses incurred because of course cancellation. Enrollees will be notified and a full refund will be made. Late applicants will be considered on a space available basis.

The course is payable in advance and includes the cost of notes, classroom material, refreshments, and lunches. The fee does not include expenses for motel accommodations or other meals. Payment may be made by check, money order, or credit card. Be sure to include attendee name(s) and course title with check. Please make checks payable to The University of Tennessee Space Institute. **VISA, MasterCard, and Discover are accepted.**

UTSI reserves the right to substitute speakers in the event of unusual circumstances. UTSI does not sell the course notes. You must attend the course in order to receive the material. Training taken to maintain or improve professional knowledge and skills is usually tax-deductible. Consult your tax advisor. **Please notify us if you require special meals, wheelchair access, or other accommodations.** Casual dress is appropriate.

Enrollment may be made by individuals or companies. Any number of persons may enroll from a single organization so long as there are vacancies. We suggest that you phone us of your intention to enroll as soon as you initiate your organization procedure so we can hold a place for you and be better able to plan the arrangements. Phone the Continuing Education Director at (931) 393-7276 and then follow with the written application.

A place in the course will be reserved for industry personnel and government employees who require time to obtain authorization. Organizations may enroll for a given number of individuals, supplying the names at a later date, if necessary. For all such enrollments or reservations, the individual names should be received by the Institute as soon as possible to ensure a place in the course. For additional applications, use separate sheet giving all particulars required on the application form.