



Student Astronaut Training Experience Confirmation Letter

Thank you for choosing to participate in the Student Astronaut Training Experience (SATX). SATX immerses your students in the world of today's astronaut training – an exciting combination of hands-on experiences, which will prepare you for the rigors of space flight.

Your group is scheduled to attend SATX on *date of your visit*. Your group training schedule provides a range of interactive activities, from a simulated Space Shuttle mission to activities designed to help students learn the sciences behind space travel. A variety of motion-based simulators allow you to experience many aspects of astronaut training. A tour through the U.S. Astronaut Hall of Fame museum will help you adopt the excitement and enthusiasm of the past, present and future of human spaceflight programs.

Please Note: Kennedy Space Center is a working space flight facility with security restrictions. Schedules and program dates may be altered in order to accommodate Kennedy Space Center operational requirements.

Due to the highly interactive nature of the SATX program, it is preferred that all student participants wear a form of athletic footwear. Shorts or pants are recommended (no skirts). Some height and weight restrictions apply on certain simulators. Please see the Medical Restrictions Consent Form. (***IMPORTANT: Bring one completed form per child on your program date.***)

Note: Due to the nature of the program, chaperones will not be permitted to ride simulators.

The morning SATX will begin at 8:30 a.m. and end at 1:30 p.m. at the U.S. Astronaut Hall of Fame

The afternoon SATX will begin at 2:30 p.m. and end at 7:30 p.m. at the U.S. Astronaut Hall of Fame. If desired, we can incorporate a 15-minute snack break for your guests. (Snacks to be provided by group.)

NOTE: Included in your SATX is a 10% discount in the U.S. Astronaut Hall of Fame. Gift Shop. To take advantage of this offer, please allow yourselves shopping time after your SATX.

If you have any additional questions regarding your reservation or payment, please contact the Inside Sales office at 877-436-9620. If you have questions about the program components or operation please call (321) 455-7030.

Thank you and welcome to the Student Astronaut Training Experience!



Student Astronaut Training Experience **Cancellation Policies**

Cancellation Policies:

IF YOU CANCEL:

In the event that you need to cancel your reservation you can receive a refund minus the \$100.00 non refundable deposit if we receive written notification of cancellation 30 days prior to your SATX. There will be a \$10 per handling fee, to cover the costs incurred in processing your reservation. Cancellations made 29-15 days prior to your SATX - will receive a 50% refund less the \$100.00 non refundable deposit and a \$10 handling fee. All monies will be forfeited if cancellations are made with less than 14 days notice. If circumstances arise, with a notice 7 days prior to the program date, you may change to a future available date.

IF WE CANCEL:

Kennedy Space Center is a working space flight facility. In the event we need to cancel an SATX program, we will do our very best to inform you as soon as possible of the cancellation. You will receive a full refund if the program is cancelled due to Kennedy Space Center Operations or other unforeseen events.

STUDENT ATX GOALS

The Student Astronaut Training Experience at the U.S. Astronaut Hall of Fame provides participants with:

- An exciting experience for 5th - 12th grade students, focused on aspects of astronaut training.
- An experience on motion-based simulators modeled after actual training simulators used by astronauts in the past.
- An opportunity to perform a space shuttle mission while operating the controls of a full-scale space shuttle replica, or a simulated mission control center.
- A guided tour of the Astronaut Hall of Fame, including highlights from the Mercury, Gemini, Apollo, and Space Shuttle programs.
- Interactive student activities that explain and teach about the many sciences used to launch rockets and show how humans survive in the vacuum of space.
- A greater appreciation of the talent, dedication, hard work and preparation that goes into conducting NASA's human spaceflight program.



STUDENT ATX PROGRAM COMPONENTS

Welcome and Orientation

As you arrive at the U.S. Astronaut Hall of Fame (AHOF), your group will be directed to the Education Lobby and greeted by the Educator Team. Educators begin the program by introducing themselves and welcoming the guests. Participants are briefed on the day's scheduled events and are given a brief overview of the space shuttle system and space exploration.

Motion-Based Simulators

Simulations may include but are not limited to the Multi-Axis Trainer (MAT) and the Trajectory Chair (T-Chair). Prior to experiencing the simulators, Educators brief participants on the purpose, history, and learning objective of each simulation. For the safety of all guests, height and weight restrictions apply to some of the motion-based simulators (*Please see medical release form for more information*).

U.S. Astronaut Hall of Fame

Participants explore the Astronaut Hall of Fame Museum which highlights important events in the Mercury, Gemini, Apollo, and Space Shuttle programs. The participants have time to engage in the hands-on activities in the interactive area.

Student Activities

Educators lead interactive presentations on space flight sciences that include the effects of space flight on the human body, thermal protection systems used on the Shuttle, foods and packaging for space flight and sciences behind the vacuum of space.

Simulated Space Shuttle Mission and Training

Educators lead participants through a thirty-minute training session, which prepares them to operate the controls of a full-scale space shuttle replica or a simulated mission control station. Participants perform a simulated space shuttle mission, using Space Shuttle simulation software and a mission script. The mission simulation provides participants the experience of successful space flight as they perform specified tasks. The software includes a variety of anomalies that the Educators may use to encourage positive problem solving and teamwork.

Debriefing

Educators debrief participants to bring closure to the day's activities, congratulate the participants on their teamwork skills, and recognize their accomplishments on the mission simulation. Participants are presented information about the future of Space Exploration.



SATX Shuttle Simulation Position Descriptions

STS-300 requires no more than a thirteen-member team for a mission. Six mission controllers are stationed inside Mission Control, and seven astronauts are onboard the orbiter.

We can easily adapt to smaller member teams for a mission. **Please have your students in groups prior to your visit. Groups may be no larger than 13 per mission.**

Mission Control Crew

FLIGHT DIRECTOR – Responsible for all the ground and orbit operations. Maintains direct contact with the orbiter crew (*Heavy reading position for someone with leadership skills*).

FLIGHT DYNAMICS OFFICER (FDO) – Monitors performance of the vehicle. Performs countdown for liftoff (*Medium reading position needs to be able to look at computer monitor and read information from monitor into the script*).

PUBLIC AFFAIRS OFFICER (PAO) – The voice of NASA (*Heavy reading position*).

SPACECRAFT SYSTEM OFFICER (SSO) – Monitors maneuvering systems onboard (*Light reading position, needs to be able to look at computer monitors and read information off monitor into script*).

EMERGENCY, ENVIRONMENTAL, CONSUMABLES OPERATIONS MANAGER (EECOM) – Monitors navigation and environmental systems (*Light reading position, needs to be able to look at computer monitors and read information off monitor into script*).

SCIENCE (SMO) – Monitors science/medical experiments and health of crew (*Fewest lines out of the mission control positions. Talks directly to orbiter crew members*).

Orbiter Crew

COMMANDER – Flies and lands the orbiter. You are responsible for all crew functions (*This position requires responsibility, good listening skills, multi-tasking between reading lines, flipping switches and typing on a small keypad. They will LAND the orbiter*).

PILOT – Assists the Commander (*This position requires responsibility, good listening skills, multi-tasking between reading lines, flipping switches and typing on a small keypad*).

MISSION SPECIALIST (MS 1 and MS 2) Robotic Arm/Satellite deployment (*Light reading position. Needs to work well with his/her partner. Needs to follow directions well and like to work with hands*).

MISSION SPECIALIST (MS 3, MS 4, and MS 5) On-Board Chemical Reaction Experiments (*Light reading position. Needs to work well with his/her partner. Needs to follow directions well and like to work with hands*).



Directions to the U.S. Astronaut Hall of Fame

**6225 Vector Space Boulevard
Titusville, FL 32780**

- **From Orlando:** Take the Beachline Expressway (also called State Road 528) EAST to 407 North. Take 407 NORTH to 405 EAST. Follow signs to Kennedy Space Center and the Astronaut Hall of Fame. The Astronaut Hall of Fame is on your right just past the Police Hall of Fame.

- **From the North:** Take I-95 South to exit #215 and follow the signs to 405 EAST. Follow signs to Kennedy Space Center and the Astronaut Hall of Fame. The Astronaut Hall of Fame is on your right just past the Police Hall of Fame.

- **From the South:** Take I-95 North, to exit #212 and take 407 NORTH to 405 EAST. Follow signs to Kennedy Space Center and the Astronaut Hall of Fame. The Astronaut Hall of Fame is on your right just past the Police Hall of Fame.

NOTE: If you are arranging transportation with a bus or taxi service be sure to mention that you are going to the U.S. Astronaut Hall of Fame and NOT the main campus of Kennedy Space Center Visitor Complex.



Medical Restrictions Consent Form

SATX Program Date: _____ **Group Name:** _____
IMPORTANT: Bring completed form with you on your program date

Kennedy Space Center Visitor Complex is proud to include several motion-based space simulators as part of the SATX experience. These simulators, located on the Training Floor of the Astronaut Hall of Fame, are an exciting way for SATX participants to learn the science of spaceflight and experience components of astronaut training, past and present.

During simulator training, individuals may experience up to three G's or gravitational force, disorientation, or fluid shifts. Persons with cardiac conditions, pulmonary dysfunctions, sensory handicaps or chronic illnesses may not be able to participate fully in the program.

Please let us know if any of the following apply to the participant:

Inner ear disorders

Vertigo

Motion sickness

Heart problems

High blood pressure

Head colds (within the last week)

Fear of heights

Recent broken bones (during the preceding school year)

Back injuries

Knee or leg injuries

Any other issues our educators should be aware of

Please explain:

Below is a brief description of our motion based simulators

Multi-Axis Trainer (MAT) *Minimum height of 52 inches***Maximum weight of 250lbs*****

This simulator will simulate a capsule tumbling out of control. The participant will be strapped into our MAT via 5-point harness to experience the disorientation associated with this tumbling.

Trajectory Chair (T-Chair)

The T-Chair will introduce the concept of trajectory to the participant. It will allow them to learn some of the challenges associated with launching a vehicle here at Kennedy Space Center.

I/We _____, the parent(s) or guardian(s) of the child grant permission for our child to participate in the simulator training element of SATX.

Adult's Name: _____

Signed: _____

Relationship to Child: _____

Date: _____