

# Space Camp®

Huntsville, AL, USA

spacecamp.com



## 2017 GROUP GUIDE

Bring the ISS  
to your classroom!



# EarthKAM.org

A  mission administered by



# 2017 GUIDE CONTENTS



Robonaut is a dexterous humanoid robot aboard the International Space Station.

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The U.S. Space & Rocket Center is the Official Visitor Center for NASA's George C. Marshall Space Flight Center and is a Smithsonian Affiliate museum.

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“All one can really leave one’s **children** is what’s inside their heads. **Education**, in other words, and not earthly possessions **is the** ultimate **legacy**, the only thing that **cannot** be taken away.”

— Dr. Wernher von Braun  
NASA, Father of Apollo Moon Landing



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For information on weeklong camps for individuals go to [www.spacecamp.com](http://www.spacecamp.com).



# TRAINING FOR YOUR FUTURE

The U.S. Space & Rocket Center is home to the world-renowned Space Camp, Space Academy, Aviation Challenge Camp and Space Camp Robotics.

## MESSAGE FROM OUR CEO



Communication technology and the ubiquity of the computer are changing the way that people live their everyday lives. In today's world, the ability to understand and use science, technology, engineering and mathematics skills is more crucial to success than at any time in our history. As NASA begins to test the Space Launch System and prepares for the Journey to Mars, the world needs more capable and passionate people to tackle the obstacles and challenges that come with expanding the frontier of exploration.

Space Camp has always used science and mathematics as the cornerstone of a life-changing experience that teaches character, teamwork and critical thinking alongside space exploration. But there is more to the program than learning principles of physics and learning to solve equations – trainees from around the world work together to use science, mathematics, and their own experiences to change how they look at the world and start planning their futures.

Many of our more than 750,000 Space Camp alumni are working on the leading edge of technology and exploration at NASA and industry leaders like Boeing, Lockheed Martin, SpaceX, Blue Origin and Sierra Nevada Corporation. Whether they are in a STEM career like astronaut and biologist Dr. Kate Rubins, or inspire people through their art like opera singer Susanna Phillips, their week at Space Camp helped them realize their dreams.

Space Camp programs offer an experience that you will never forget: feel what it's like to embark on a journey to Mars; undergo intense TOP-GUN-style jet fighter training at Aviation Challenge; or solve complex problems by applying your design and engineering skills at Space Camp Robotics.

The adventure of a lifetime is calling. Come launch your dream at Space Camp.

Warmest regards,

**Dr. Deborah Barnhart**  
Chief Executive Officer and Executive Director



## MEET OUR ALUMNI

“I grew up in a small town in Washington State where I didn't know anyone who was interested in space like I was. When I came to Space Camp, I met so many kids who were like me. It was one of the best weeks of my life, and I wanted to do it again. I came back for Advanced Academy when I was 17, and it was above and beyond. I learned so much about team work and problem-solving. The six-hour mission was pretty awesome, too.

I came to work at Space Camp when I was 20, and it felt like I had won the lottery. I got down there, and I saw all the opportunities outside of camp. I transferred from the University of Washington to the University of Alabama in Huntsville, and I got a research assistant position in the Propulsion Research Center at Marshall Space Flight Center through UAH. I then went on to get my Ph.D. in mechanical engineering at Penn State.

Space Camp definitely inspired me to be where I am. It motivated me and gave me confidence. It gave me the confidence to know I could do it.”

### – Michelle Christenson

Age attended Space Camp: Space Academy, 13,  
and Advanced Space Academy, 17;  
20 to 23, Space Camp Crew Trainer

#### Education:

Bachelor of Science, Mechanical and Aerospace Engineering, University of Alabama in Huntsville; Master of Science and Ph.D., Mechanical Engineering

#### Occupation:

Propulsion Development Engineer at Blue Origin space flight company

*The U.S. Space & Rocket Center is the Official Visitor Center for NASA's Marshall Space Flight Center, an affiliate of the Smithsonian Institution, and the showcase for Redstone Arsenal and defense programs, including energy. Leading technology initiatives in aerospace and defense are showcased along with international space artifacts including the world's only complete space shuttle stack and a National Historic Landmark Apollo Saturn V moon rocket.*



## NEW MISSIONS

Just as NASA and commercial companies are moving toward deep space exploration, so is Space Camp. Trainees take part in missions aboard NASA's Orion capsule and Altair lander to Mars. Trainees are challenged to survive, conduct research and work together as a team while millions of miles from home. The students of today are the generation that will travel to Mars, and this simulation sends them on the path to being the first people on the Red Planet. The all-new simulation features NASA's next great ship, the Space Launch System, which is being developed here in Huntsville, Ala.

The **Mission Center Complex**, where Space Camp students of all ages train, also has new lunar missions as well as an updated mission control. Space Camp missions are also centered around a full-scale representation of the current manned space program: the International Space Station (ISS). While on the ISS, in the MCC, trainees conduct representative science experiments, are responsible for command and control and perform space walks in realistic white space suits.

# Bring the ISS to your classroom!

## Sally Ride EarthKAM @ Space Camp



Kaunakakai, Hawaii

Through the Sally Ride EarthKAM @ Space Camp program, students and educators from around the globe can take part in a NASA-funded Earth observation experiment and request images of Earth directly from a camera aboard the International Space Station. Using a free web portal, students can track the orbit of the ISS and choose a location for the onboard camera to photograph, while learning more about NASA's missions and the science behind Earth observation. Once the picture is taken, students will receive a personal link that shows their unique request in an online, public database.

This program is open to both formal and informal educational groups. For information on current and future missions and to learn how to get your classroom or group involved,

visit [EarthKAM.org](http://EarthKAM.org)



**EarthKAM**

[www.EarthKAM.org](http://www.EarthKAM.org)



The Sally Ride EarthKAM @ Space Camp program is a NASA-funded experiment and education outreach effort operated by the U.S. Space & Rocket Center in conjunction with the University of Alabama Huntsville and Teledyne Brown Engineering.



## MEET OUR ALUMNI

“Space Camp was truly my first introduction to flight operations, and I distinctly remember being the spacecraft systems officer in mission control and a mission specialist when I was in the space shuttle simulator. During both simulations we had to work as teams to overcome anomalies and accomplish the mission; no one camper could do everything at once. After my week at Space Camp, the idea of being part of a team operating spacecraft had taken root in my mind.”

— **Mike Siebert**

Age attended Space Camp: 10

### Education:

Bachelor of Science, Aerospace Engineering Sciences,  
University of Colorado at Boulder

Master of Science, Engineering Space Operations,  
University of Colorado at Colorado Springs

Occupation: Rover Driver and Lead Flight Director, Mars  
Exploration Rover Project, Jet Propulsion Laboratory

*Activities aligned with National Science  
and Math Education Standards*



SPACE EXPLORATION  
BADGE AVAILABLE

## CONTACT US OR VISIT US ONLINE

website [spacecamp.com/space](http://spacecamp.com/space)

phone (800) 637-7223

(256) 837-3400

Visit [spacecamp.com](http://spacecamp.com) for information on earning Scout badges.

# SPACE CAMP

**Ages 9\*-11 • Grades 4-6**

*\*Nine year olds must have completed the 3rd grade.*

Suit up for a mission to the International Space Station or train for a landing on the moon, Mars or an asteroid! Space Camp is the ultimate educational experience that illuminates real-world applications of science, technology, engineering and mathematics. Students work as a team and confront mission scenarios that require dynamic problem solving and critical thinking – 21st century learning skills required in the workplace. Throughout the week, students are immersed in simulated astronaut training using equipment adapted from NASA’s astronaut program. They learn about space hardware and experience an exploration mission while learning about aerospace career opportunities.

The curriculum includes an educational movie in either the SpaceDome IMAX® or National Geographic Theater.

### Activities

- Train on astronaut simulators, including Multi-Axis Trainer, the Five Degrees of Freedom Chair and the 1/6th Gravity Chair
- Build and launch rockets
- Compete in Space Bowl

### Fast Facts

- Check-in: Sunday 2 p.m. - 4 p.m.
- Graduation: Friday 9 a.m.
- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$849 (\$722 per student)
  - Summer: 15% off \$949 (\$807 per student)
- Group size: Minimum 16
- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee. Alabama student groups: fall/winter/spring \$499/per person. No other discounts apply.

## A DAY IN THE LIFE AT SPACE CAMP

### Sample Schedule

TIME	ACTIVITIES
8 a.m. – 9 a.m.	Prep for Day & Eat Breakfast
9 a.m. – 10 a.m.	Ride Spaceshot, G-Force & Climb the Mars Wall
10 a.m. – 11:30 a.m.	Leadership and Teambuilding Activities
11:30 a.m. – noon	Lunch in the Crew Galley
12:30 p.m. – 1:30 p.m.	Astronaut Training Simulator
1:30 p.m. – 3 p.m.	Rocket Construction
3:00 p.m. – 4 p.m.	IMAX® Movie Showing
4:00 p.m. – 5 p.m.	Simulated Mission Training
5:30 p.m. – 6 p.m.	Dinner
6:30 p.m. – 7:30 p.m.	Learn the History of Spaceflight
7:30 p.m. – 8:30 p.m.	Engineering Workshop
9 p.m. – 10 p.m.	Call Home, Prep for Bed

# SPACE ACADEMY

Ages 12-14 • Grades 7-9

Space Academy trainees experience firsthand the future of space travel and train to solve technically challenging anomalies in order to save their space mission. They practice clear communication through an activity in the Underwater Astronaut Trainer and put engineering skills to the test as they construct an ablative shield during the Thermal Design Challenge.

## Activities

- Design, build and launch rockets
- Train on astronaut simulators, including Multi-Axis Trainer, the 1/6th Gravity Chair
- Experience the thrill of simulated space missions

## Fast Facts

- Check-in: Sunday 12 p.m. - 2:30 p.m.
- Graduation: Friday 11 a.m.
- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$849 (\$722 per student)
  - Summer: 15% off \$949 (\$807 per student)
- Group size: Minimum 16
- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee. Alabama student groups: fall/winter/spring \$499/per person. No other discounts apply.

# ADVANCED SPACE ACADEMY

Ages 15-18 • Grades 10-12

Advanced Space Academy explores college and career preparation through an immersive experience in science, engineering, technology and math. Trainees experience a variety of astronaut training exercises, engineering challenges and teambuilding activities all culminating in an extended-duration simulated space mission.

## Activities

- Train like an astronaut on the Multi-Axis Trainer and the 1/6th Gravity Chair
- Test individual abilities and team skills in an extended-duration mission
- Design and build customized rockets, robots, space suits and heat shields in engineering
- Participate in the introductory pilot training course at Aviation Challenge which features survival training, jet aircraft simulations and a two person centrifuge
- Conduct a simulated SCUBA Spacewalk in our dive tank

## Fast Facts

Check-in: Sunday 12 p.m. – 2:30 p.m.

Graduation: Friday 11 a.m.

- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$949 (\$807 per student)
  - Summer: 15% off \$1049 (\$892 per student)
- Group size: Minimum 16
- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee. Alabama student groups: fall/winter/spring \$499/per person. No other discounts apply.



## MEET OUR ALUMNI

Dr. Kate Rubins is the third Space Camp® alumna to fly in space, with a launch to the International Space Station in the summer of 2016. Kate dreamed of becoming an astronaut as a child and did chores around the house to earn her trip to Space Academy® in seventh grade. She left camp knowing she needed to take as many math and science courses as she could, and that focus paved the way to her study of viral diseases and, ultimately, the NASA astronaut corps. Kate received a bachelor's degree in molecular biology and a Ph.D. in cancer biology. Selected by "Popular Science" magazine as one of its "Brilliant 10" in 2009, Kate was a Fellow and Principal Investigator at the Whitehead Institute for Biomedical Research at the Massachusetts Institute of Technology before becoming a member of the 20th NASA astronaut class.

### – Dr. Kate Rubins

Age attended Space Academy: 14

#### Education:

Bachelor of Science, University of California, San Diego  
Ph.D, Stanford University

#### Occupation:

Astronaut, Flight Engineer for Expedition 48 and 49  
Napa, Calif.



### College Credit

Students earn one credit hour of freshman-level general science from University of Alabama in Huntsville and receive information on how the credit may be transferred to another college or high school as part of an official transcript.\*

\*International students entering the U.S. on a B1/B2 visa, or through the Visa Waiver Program, are not eligible to receive credit due to visa restrictions.



# AVIATION CHALLENGE MACH I

**Ages 9\*-11 • Grades 4-6**

*\*Nine year olds must have completed the 3rd grade.*

Aviation Challenge Camp combines critical thinking, teamwork and leadership training into a five-day military-themed adventure. Students learn basic principles of aviation and put their knowledge to the test in F-18 Super Hornet simulators. Taking the role of fighter pilots, students run control systems and scenario-based missions and learn water- and land-survival skills. They also learn about civilian and military careers in aviation.

The curriculum includes an educational movie in either the SpaceDome IMAX® or National Geographic Theater.

## Activities

- Master basics of flight in hands-on activities
- Test patrolling, teamwork and outdoor training in a SEAL Operation

## Fast Facts

- Check-in: Sunday 12 p.m. - 2:30 p.m.
- Graduation: Friday 10 a.m.
- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$849 (\$722 per student)
  - Summer: 15% off \$949 (\$807 per student)
- Group size: Minimum 16
- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee. Alabama student groups: Fall/Winter/Spring \$499/per person. No other discounts apply.

**Proven program that uses the excitement of aviation to teach STEM concepts**

## A DAY IN THE LIFE AT AVIATION CHALLENGE

### Sample Schedule

TIME	ACTIVITIES
7 a.m. – 8:30 a.m.	Prep for Day & Eat Breakfast
8:30 a.m. – 10 a.m.	F-18 Simulator Overview & Training
10 a.m. – 11 a.m.	Introduction to Land Survival Activity
11 a.m. – noon	IMAX® or National Geographic Theater Movie
Noon – 1:30 p.m.	Lunch
1:30 p.m. – 3 p.m.	F-18 Simulator Overview & Training
3 p.m. – 4 p.m.	Introduction to Patrolling Activity
4 p.m. – 6 p.m.	Water Activity
6 p.m. – 7 p.m.	Dinner
7 p.m. – 8 p.m.	Introduction to Drill & Ceremony Activity
8 p.m. – 9 p.m.	Teambuilding Activity
9 p.m. – 9:30 p.m.	Modern Air Systems
9:30 p.m. – 10 p.m.	Prep for Bed
10 p.m.	Lights Out & Bedtime



**FIRST-AID BADGE AVAILABLE**

**CONTACT US OR VISIT US ONLINE**

website [spacecamp.com/aviation](http://spacecamp.com/aviation)

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(256) 837-3400

Visit [spacecamp.com](http://spacecamp.com) for information on earning Scout badges.

# MACH II

**Ages 12-14 • Grades 7-9**

Young leaders are tested at Aviation Challenge Mach II in their knowledge of aerodynamics and teamwork. Trainees take part in hands-on activities based on the design principles of modern air systems in flight simulators and go through air combat maneuvering training to prepare for mission scenarios. They also learn search and rescue skills to rescue a downed pilot.

## Activities

- Experience g-force training in a centrifuge
- Learn basic land and water survival
- Enhance skills on the Challenge Course teambuilding elements

## Fast Facts

- Check-in: Sunday 12 p.m. - 2:30 p.m.
- Graduation: Friday 10 a.m.
- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$849 (\$722 per student)
  - Summer: 15% off \$949 (\$807 per student)
- Group size: Minimum 16
- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee. Alabama student groups: Fall/Winter/Spring \$499/per person. No other discounts apply.

# MACH III

**Ages 15-18 • Grades 10-12**

Mach III missions challenge trainees with freedom of control, requiring them to think about maneuvers in all three rotational-axes of flight as they take on the most advanced flight simulations, engineering principles and leadership responsibilities. Field training is focused on discipline and attention to detail in survival situations. A final night SEAL Operations mission requires teams to work together to recover intelligence or rescue a downed pilot. Communication is paramount as everything is taken to the next level in Mach III.

## Activities

- Fly simulators with tandem-seat cockpits
- Perfect advanced combat maneuvers that include navigation, air-to-ground and air-to-air engagement
- Experience the thrill of the simulated parachute water landing on a 150-foot zip line with real pilot harness fittings
- Test skills in our Challenge Course teambuilding element and high ropes challenges

## Fast Facts

- Check-in: Sunday 12 p.m. - 2:30 p.m.
- Graduation: Friday 10 a.m.
- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$849 (\$722 per student)
  - Summer: 15% off \$949 (\$807 per student)
- Group size: Minimum 16
- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee. Alabama student groups: fall/winter/spring \$499/per person. No other discounts apply.



## MEET OUR ALUMNI

“I think that attending Aviation Challenge set me down the path for a career in aviation. I wouldn't say that it changed me so much as it got me more interested in flying. With an interest in flying comes the desire to know how airplanes work, which means that you need to have some amount of interest in engineering. I think that my desire to understand how these complex machines worked helped lead me towards pursuing an engineering degree.”

### - Dave Cornes

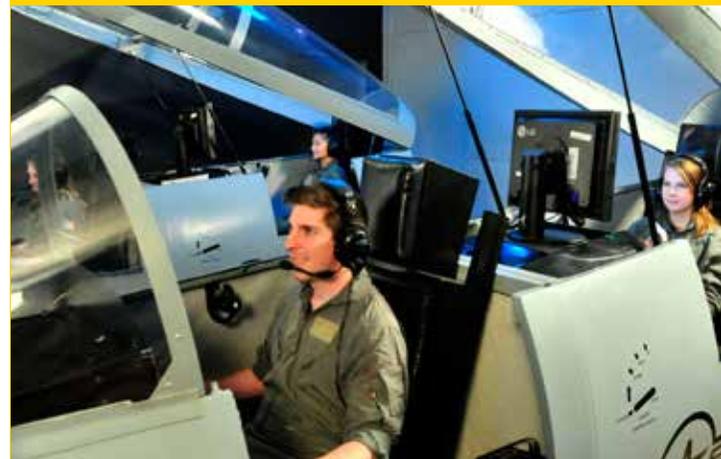
Age attended Aviation Challenge: 12

#### Education:

Bachelor of Science in Ocean Engineering; United States Naval Academy

#### Occupation:

First Lieutenant in the United States Marine Corps as a MV-22 Osprey pilot.



### College Credit

Students earn one credit hour of freshman-level general science from University of Alabama in Huntsville and receive information on how the credit may be transferred to another college or high school as part of an official transcript.\*

\*International students entering the U.S. on a B1/B2 visa, or through the Visa Waiver Program, are not eligible to receive credit due to visa restrictions.

# SPACE CAMP ROBOTICS

**Ages 9-11 • Grades 4-6**

*\*Nine year olds must have completed the 3rd grade.*

Space Camp Robotics trainees learn their ideas can become a reality as they use robotic technologies to create engineering solutions for real-world problems. Trainees work as a team to build and test their own designs in air, land and sea challenges. The week culminates with a spirited contest as trainees test the robots they spent the week building, programming and testing.

The curriculum includes an educational movie in either the SpaceDome IMAX® or National Geographic Theater.

## Activities - Air • Sea • Land Robotics

- Design and built a robotic chassis
- Program robots to move and act
- Pilot robots in the lab and on the Challenge Table
- Learn to use binary code, the language of machines
- Remotely fly aerostats
- Design, build and pilot underwater robots using the SeaPerch ROV system

## Fast Facts

- Check-in: Sunday 2 p.m. - 4 p.m.
- Graduation: Friday 9 a.m.
- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$849 (\$722 per student)
  - Summer: 15% off \$949 (\$807 per student)

Group size: Minimum 16

- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee. Alabama student groups: fall/winter/spring \$499/per person. No other discounts apply.

## A DAY IN THE LIFE AT SPACE CAMP ROBOTICS

### Sample Schedule

TIME	ACTIVITIES
8 a.m. - 9:30 a.m.	Prep for Day & Eat Breakfast
9:30 a.m. - 10:30 a.m.	Teambuilding Activity
10:30 a.m. - 11:30 a.m.	Astronaut Simulators
11:30 a.m. - 12:30 p.m.	Building Activity
12:30 p.m. - 1 p.m.	Lunch
1 p.m. - 2 p.m.	IMAX® or National Geographic Theater Movie
2 p.m. - 3 p.m.	Building Activity
3 p.m. - 5 p.m.	Underwater Robotics
5 p.m. - 5:30 p.m.	Dinner
5:30 p.m. - 7 p.m.	Programming Activity
7:30 p.m. - 8:30 p.m.	Teambuilding Activity
8:30 p.m. - 9:30 p.m.	Electronics Projects
9:30 p.m. - 10 p.m.	Prep for Bed
10 p.m.	Lights Out & Bedtime



“As I straddled those ages when one is not quite a child yet not quite an adult, the counselors, peers and activities at Space Academy further fueled my goals and refined my focus of what I wanted to do in college and what career field I wanted to pursue. I am proud to say that I have now been a part of our amazing space program for 20 years. I have gone on to fly on the ‘vomit comet,’ to train John Glenn for his space shuttle mission and to see experiments I developed fly in space.”

– **Niki Werkheiser**

Age attended Space Academy: 14

Age attended Advanced Space Academy: 16

### Education:

Bachelor of Science, Biology, University of Alabama in Huntsville

Bachelor of Arts, Russian Studies, University of Alabama in Huntsville

Master of Science, Biology, with an emphasis on Gravitational Biology, University of Alabama in Huntsville

**Occupation:** In-space Manufacturing Project Manager, NASA Marshall Space Flight Center

*Project-based, hands-on experiences that accommodate a variety of learning styles*



**ROBOTICS BADGE AVAILABLE**

**CONTACT US OR VISIT US ONLINE**

website [spacecamp.com/robotics](http://spacecamp.com/robotics)

phone (800) 637-7223

(256) 837-3400

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# ROBOTICS ACADEMY

Ages 12-14 • Grades 7-9

The academy-level robotics program takes it to the next level for the next generation of engineers, designers and gear heads with real-world applications of science, technology, engineering and math. Hands-on sessions in robot chassis design and building algorithms, remote-control design and operation, and aerial drone operations make for an exciting adventure. Trainees focus on teamwork as they learn what it's like to engineer and design robots on land, in the air and underwater with state-of-the-art materials. The week culminates with trainees competing to complete tasks on a Challenge Table using robots they spent the week building, programming and testing.

## Activities

- Program robots to interact with the world using a variety of sensors and motors
- Hands-on sessions in robot chassis design and building algorithms, remote-control design and operation and aerial operations make for an exciting adventure.
- Master maintaining satellite connections and managing wireless signals in order to control and pilot robots on the Challenge Table
- Choose from optional lessons such as building robotic attachments, programming with sensors and data functions, or using both tactile and touchless Human Interface Devices
- Use the binary number system and basic logic functions to understand how machines “think”
- Remotely fly quadcopters
- Design, build, and pilot underwater robots, using the SeaPerch ROV system

## Fast Facts

- Check-in: Sunday 12 p.m. - 2:30 p.m.
- Graduation: Friday 9 a.m.
- Pricing—Groups receive 15% off standard tuition
  - Fall/Winter/Spring: 15% off \$849 (\$722 per student)
  - Summer: 15% off \$949 (\$807 per student)
- Group size: Minimum 16
- For every 15 paid students, 16th student is free

All group registrations are subject to a nonrefundable \$150 registration fee.  
Alabama student groups: fall/winter/spring \$499/per person.  
No other discounts apply.



## MEET OUR ALUMNI

“I began my six years at Space Camp by first attending Aviation Challenge because I thought I wanted to be a pilot. I had a great time at Aviation Challenge, but when I heard former NASA astronaut Don Thomas talk at graduation, his story inspired me to try Space Camp. I went on to attend Space Camp multiple times and it became like a second home to me. What I learned about space exploration sparked my desire to research all I could on the subject. My time at Space Camp also kept me interested in science in school, and I took as many courses in engineering and science as I could. I also used what I learned about the International Space Station to design a tool that won the Future Engineers 3-D Printing in Space Tool Challenge, and my winning design will be printed aboard the ISS. I'm now pursuing a degree in aerospace engineering and want to go on to work for NASA and eventually to become an astronaut.”

- RJ Hillan

### Education:

Freshman at University of Alabama in Huntsville,  
Aerospace Engineering

### Awards:

Won the Future Engineers 3-D Printing in Space  
Tool Challenge





*Inquiry-based learning through activities and challenges*

*Collaborative action with individual accountability*

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# TWO- AND THREE-DAY PROGRAMS

## Pathfinder (Three-day sleepover) Grades 4-8

Pathfinder® provides an exciting introduction to Space Camp or Aviation Challenge Camp in a three-day, two-night program. Groups have the option to attend Monday to Wednesday, Wednesday to Friday or Friday to Sunday sessions. Adult chaperones participate in this program.

### Activities

#### Space Program:

- Build and launch rockets
- Train on astronaut simulators, including Multi-Axis Trainer and the Five Degrees of Freedom Chair
- Launch on a simulated space shuttle mission
- Experience movies in Spacedome IMAX® or in the National Geographic Theater

#### Aviation Program:

- Learn principles of flight
- Fly simulators
- Hone land-survival skills
- Experience movies in Spacedome IMAX® or in the National Geographic Theater

#### Robotics Program:

- Learn to program with LEGO® MINDSTORMS® EV3 software
- Design, build and modify robots
- Operate aerial and underwater remotely operated vehicles
- Compete in a specially designed challenge

### Fast Facts

- Check-in: 12 p.m. - 1 p.m.
- Graduation: 10 a.m.
- Group size: Minimum 16 (including adults); for every 15 students booked, one adult is admitted free.
- Fall/Winter: \$249 per person
- Spring/Summer: \$289 per person

All group registrations are subject to a nonrefundable \$150 registration fee. On-site lodging is included. Off-site lodging is available for an additional cost.

### Sample Schedule

TIME	ACTIVITIES
8 a.m. - 9 a.m.	Prep for Day & Breakfast
9 a.m. - 10 a.m.	Launch Model Rockets
10 a.m. - 11 a.m.	Commercial Spaceflight
11 a.m. - 11:30 a.m.	Lunch
11:30 a.m. - 12:30 p.m.	ISS: Science on Orbit
12:30 p.m. - 1:30 p.m.	Simulated Spaceflight Mission
1:30 p.m. - 2 p.m.	Mission Debrief
2 p.m. - 3 p.m.	Time in Gift Shop
3 p.m. - 4 p.m.	IMAX® or National Geographic Theater Movie
4 p.m. - 4:30 p.m.	Time in Museum
4:30 p.m. - 5 p.m.	Dinner
5 p.m. - 6 p.m.	History of Spaceflight in Museum
6 p.m. - 7 p.m.	Astronaut Training Simulator
7 p.m. - 8 p.m.	Space Bowl
8 p.m. - 9:30 p.m.	Prep for Bed
9:30 p.m.	Lights Out & Bedtime

## Youth Leadership Retreat

### (Three-day sleepover) Grades 10-12

Custom crafted for students in high school, this program, offered on selected weekends in the fall, is designed to teach teamwork and leadership while helping students develop critical life skills that are highly valued in scholarship acquisition, college admission and ultimately in the global workforce.

#### Leadership Skills Training

- Experience communication and problem solving challenges
- Enhance collaborative and teambuilding skills
- Test skills in our Challenge Course teambuilding element and high- and low-ropes challenges

#### Fast Facts

- Fall/Winter: \$249 per person
- Spring/Summer: \$289 per person
- Group size: Minimum 16

All group registrations are subject to a nonrefundable \$150 registration fee.

## Surveyor

### (Two-day sleepover) Grades 1-8

Explore the U.S. Space & Rocket Center in this two-day, one-night, structured educational adventure designed for larger groups of students, educators and chaperones.

The program is available:

- Fall: Monday to Tuesday  
Wednesday to Thursday  
Friday to Saturday  
Saturday to Sunday
- Spring/Summer: Friday to Saturday  
Saturday to Sunday

#### Activities

- Build and fly a paper rocket
- Experience a hands-on science presentation
- See a movie in Spacedome IMAX® or in the National Geographic Theater

#### Fast Facts

- Check-in: 1 p.m. – 2:30 p.m.
- Check-out: 2 p.m.
- Group size: Minimum 16 (including adults); for every 25 students booked, one is free
- Fall: \$99 per person
- Spring/Summer: \$129 per person

All group registrations are subject to a nonrefundable \$150 registration fee. On-site lodging is included. Off-site lodging is available for an additional cost.

#### Sample Surveyor Schedule

TIME	ACTIVITIES
1 p.m. - 2:30 p.m.	Registration
2:30 p.m. - 3 p.m.	Program Starts & Orientation
3 p.m. - 4:30 p.m.	Astronaut Training Simulators
4:30 p.m. - 5 p.m.	Spaceshot, G-Force & Climb the Mars Wall Simulators
5 p.m. - 5:30 p.m.	Dinner
5:30 p.m. - 6:30 p.m.	History of Spaceflight in Museum
6:30 p.m. - 7:30 p.m.	Science Presentation
7:30 p.m. - 8 p.m.	History of Spaceflight in Museum
8 p.m. - 9 p.m.	Prep for Bed
9 p.m.	Lights Out & Bedtime



*Team trust and cohesion*





# DAILY SPACE ADVENTURE

## Self-guided

Discover the dramatic history spanning from early spaceflight to the space shuttle program and beyond! The Daily Space Adventure is a self-guided day trip with add-on options available, including movies and a lunch. Groups may choose to visit for the day or for a few hours.

### Fast Facts

- Both student and adult groups of 15 or more can experience the museum and traveling exhibits
- Summer, Fall, Winter: \$11 per person
- Spring: \$13 per person
- Optional purchases:
  - \$7 movies, choice of IMAX® or National Geographic Theater
  - \$7.50 boxed lunches available

# ULTIMATE FIELD TRIP

## 5 - 6 hours

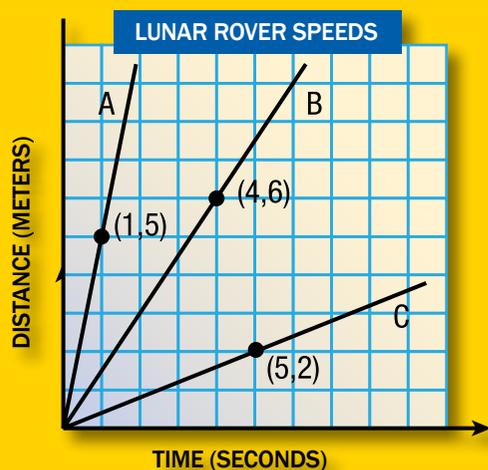
Show your student where STEM leads – to cool rockets and robots. Our daylong field trips correlate to national mathematics and Next Generation Science Standards guided by worksheets and hands-on activities.

Your day includes:

- Entrance to U.S. Space and Rocket Center, Shuttle Park, Rocket Park and public museum simulators
- Mars Meal
- Movie in either the IMAX® or National Geographic Theater
- Hands-on STEM lab

### Fast Facts

- Groups of 15 or more can embark on this day-long adventure
- Summer, Fall, Winter: \$25 per person
- Spring: \$27 per person



Visit [rocketcenter.com/groups/daily](http://rocketcenter.com/groups/daily) to download free math exploration guides.

Participatory museum learning experience

## CONTACT US OR VISIT US ONLINE

website [rocketcenter.com/groups](http://rocketcenter.com/groups) or  
 email questions to [museumgroups@spacecamp.com](mailto:museumgroups@spacecamp.com)  
 phone (800) 637-7223  
 (256) 837-3400

# ULTIMATE FIELD TRIP

## Sample Schedule

TIME	ACTIVITIES
10 a.m. – 10:30 a.m.	Registration
10:30 a.m. – 11 a.m.	Saturn V Hall Tour
11 a.m. – 12 p.m.	Lab
12 p.m. – 12:30 p.m.	Rocket Park Tour
12:30 p.m. – 1 p.m.	Lunch
1 p.m. – 2 p.m.	IMAX® or National Geographic Theater Movie
2 p.m. – 2:30 p.m.	ISS: Science on Orbit
2:30 p.m. – 3 p.m.	Gift Shop
3 p.m. – 3:30 p.m.	Featured Exhibit
3:30 p.m. – 4 p.m.	Free Time
4 p.m.	Depart

# SCUBA EXPERIENCE

Ages: 14 and up; under 18 must be accompanied by parent  
Available for groups  
Subject to booking availability and weather conditions

The SCUBA Experience is an exciting way to train for microgravity like an astronaut by diving in our 24-foot-deep heated Neutral Buoyancy Simulator, also known as the Underwater Astronaut Trainer!

## Activities

- Learn basic SCUBA safety skills from a certified dive instructor
- Dive to the bottom of the Underwater Astronaut Trainer (UAT) to launch a mission
- Experience challenge of mastering simulated microgravity during the underwater exercise that lasts approximately 30 minutes

## Fast Facts

- All dive equipment is provided
- Participants need a swimsuit and T-shirt, a Liability and Medical Waiver completed prior to diving
- Certain restrictions, including asthma, may prohibit diving; medical waiver is approved by dive instructor
- Minimum of 3 participants
- Discount for certified divers includes two free participants with 10 paid participants.
- \$99\*per person; full payment due at booking

\*Includes admission to the U.S. Space & Rocket Center

# CHALLENGE COURSE

Ages: 12 and up; under 18 must be accompanied by parent  
Available for groups  
Subject to booking availability and weather conditions

The Challenge Course builds vital teamwork, communication and leadership skills while giving participants an adventure to remember! The U.S. Space and Rocket Center offers both high- and low-ropes courses that push leadership skills to the max. The program is great for any group wanting a collaborative teambuilding experience.

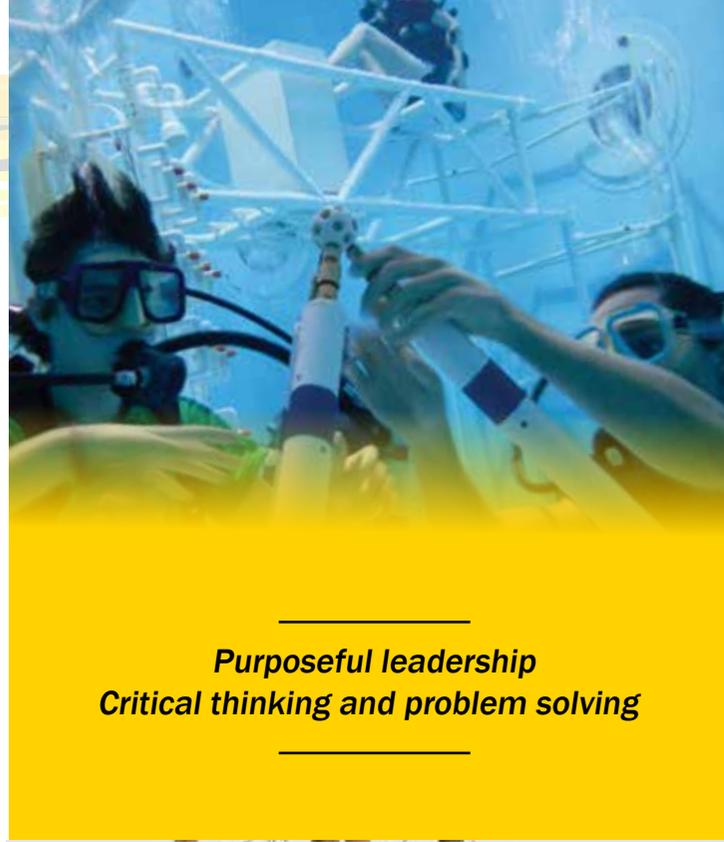
## Train and conquer our:

- Climbing Wall
- 32-foot Pamper Pole
- 400-foot Zip-line

## Fast Facts

- Ropes Course equipment and procedures adhere to the Association of Challenge Course Technology Standards
- Staff members are professionally trained on emotional and physical risk management
- Minimum of 8 participants, maximum 10, 50% deposit per person
- Low Ropes: \$25 per person
  - Obstacle Course
- High Ropes: \$45 per person
  - Climbing Wall
  - Pamper Pole
  - Zip-line
- Low & High Ropes: \$65 per person; full payment due at booking
  - Two High Ropes or Low & High

SCUBA Experience and Challenge Course are available most weekends, but due to limited capacity, reservations must be booked at least three weeks in advance.



*Purposeful leadership  
Critical thinking and problem solving*





***Adaptability, perseverance,  
teamwork and communication***

# CORPORATE/CUSTOM PROGRAMS

## Customized for any group

Corporate Space Camp integrates the excitement of simulated astronaut or jet pilot training with corporate development training to enhance leadership, problem solving and teamwork skills. Programs are customized to meet the client's needs and can be as short as a half day or extend up to five days. The Corporate Camp team can provide the training or work with the client's facilitator to format the training within the framework of a space or special operations aviation mission. High- and low-rope challenges and SCUBA can be incorporated into the program.

### Space Camp

- Train on simulators patterned after those used by NASA
- Engage in an intense simulated space missions from countdown to touchdown
- Enhance in teamwork, leadership and critical thinking skills through interactive training

### Aviation Challenge

- Fly a simulated F-18 Hornet
- Hone land- and water-survival skills as part of a special operations team
- Enhance in teamwork, leadership and critical-thinking skills through interactive training

### Fast Facts

- Programs can be scheduled year round but are subject to availability
- Clients have the choice of staying on site at the U.S. Space & Rocket Center or in a hotel located adjacent to our facility.
- For more information on this customized program and for pricing: 256-721-7124 or 1-800-637-7223
- Prices range from \$80 to \$250 per person based on the program options chosen
- Email: [corporatecamp@spacecamp.com](mailto:corporatecamp@spacecamp.com)

*“This program provides a pathway from everyday life to business interactions where teamwork, communication and forethought are emphasized. Certainly this program will help start and move a group from juvenile operations towards individual commitment for group accomplishment.”*

*-Michael Wilson Reese,  
TVA Sequoyah Nuclear Plant*

## CONTACT US OR VISIT US ONLINE

website [spacecamp.com/corporate](http://spacecamp.com/corporate)  
phone (800) 637-7223  
(256) 837-3400

# SPACE ACADEMY FOR EDUCATORS

Space Academy for Educators is the most exciting professional development on the planet.

SAE brings together the excitement of simulated space missions with the real-world applications and lesson plans teachers need to inspire their students in science, technology, engineering and mathematics.

Educators spend five days at Space Camp networking with fellow teachers and participating in NASA infused hands-on activities.

While at SAE, educators also discover resources for building their own activities, tap into a network of committed colleagues eager to share ideas and best practices and learn in a fun, immersive environment where “failure is not an option.”

## Activities

- Work with NASA-developed lesson plans
- Scale lesson plans to fit the classroom
- Adapt hands-on activities correlated to national standards
- Train like an astronaut
- Meet an astronaut
- Build and launch rockets
- Develop camaraderie and communication skills on the low ropes course

## Fast Facts

- Dates: Offered in June and July; check [spacecamp.com/educators](http://spacecamp.com/educators) for dates and availability
- Tuition: Includes food, program materials, flight suit and housing on the campus of the University of Alabama in Huntsville. Daily transportation to and from the dormitory to the U.S. Space & Rocket Center is provided.
- Check in: From 4-8 p.m. at UAH the day prior to start of camp
- Graduation: The evening of the last day of camp
- Travel arrangements: Airport pick up/drop off service available from Huntsville International Airport
- Price: \$949\*

\*Includes a \$50 non-refundable registration fee

## Graduate Credit or CEUs

Professional Learning: Receive up to 45 hours of Continuing Education Units (CEU)

Graduate Credit: Build on the knowledge gained as part of the Space Academy for Educators and earn three graduate credit hours. Learn about ED 532/SPA532- Space Orientation for Educators offered by The University of Alabama in Huntsville – [www.pcs.UAH.edu/SpaceEducators](http://www.pcs.UAH.edu/SpaceEducators).\*

\*Applicants must apply for graduate credit prior to attending. Graduate tuition fees apply. For information visit [www.pcs.UAH.edu/SpaceEducator](http://www.pcs.UAH.edu/SpaceEducator).



## MEET OUR ALUMNI

“Space Academy changed my life forever, personally and professionally. I saw real-world examples of how math and science should be integrated together and in a fun way that made sense. The engineering design challenges and rocketry lessons at camp were phenomenal. I found myself wondering ‘where has this been all my life?’ I was having so much fun and learning as an adult that I couldn’t wait to get back and implement these projects with my students.

I revamped the entire way I taught. Everything became hands-on, and I integrated space content into all the topics that I taught. Reading, writing, research and math were all integrated into projects as well. My students were more engaged, I had higher attendance numbers and I was having a blast, too!”

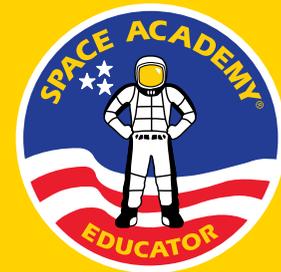
### - Kaci Heins

**Attended camp:** 2010 as a part of Honeywell’s Educators @ Space Academy  
2012 with Honeywell’s Advanced Space Academy  
2015 as a Honeywell Ambassador for Honeywell’s Educators @ Space Academy  
2015 Family Space Camp with 7-year-old son

**Education:** Bachelor’s Degree in Elementary Education with an emphasis on science, Southeast Missouri State University

Master’s Degree in Secondary Education with an emphasis in technology, Southeast Missouri State University

**Occupation:** Sixth-grade science teacher



## CONTACT US OR VISIT US ONLINE

website [spacecamp.com/space/educators](http://spacecamp.com/space/educators) or  
email questions to [education@spacecamp.com](mailto:education@spacecamp.com)  
phone (800) 637-7223  
(256) 837-3400

# GROUP BOOKING GUIDELINES

For best results in booking your group reservation:

1. A minimum of 16 participants is required to qualify for the group rate. Call 1-800-637-7223 for pricing for groups with fewer than 16 participants.
2. In order to better ensure your group can attend camp on your preferred dates, it is best to reserve your session at least six months in advance. Please be aware that some weeks in the busiest times may fill prior to six months in advance; therefore, your preferred week may not be available if you wait to book within six months of your selected date.
3. The non-refundable \$150 group registration fee is due within 10 business days of the date confirmation. In addition to the \$150 group registration fee, tour group companies requesting 32 or more slots in May, June and July must pay a 50% deposit within 10 business days of date confirmation in order to secure requested slots.
4. The 50% deposit payment is due 120 days before arrival or within 10 days of the date confirmation, if you book within the 120-day window.
5. The final payment is due 90 days before arrival.
6. If booking within three months of arrival, the full payment is due within 30 days of booking.
7. If booking within two months, the full payment is due at the time of booking.
8. The cancellation policy goes into effect 90 days before arrival and applies to the entire group as well as to individual group participants.
9. Health forms are required for all weeklong groups and must be submitted no later than 30 days prior to arrival at camp in order to ensure our nursing staff has adequate time to review and prepare for your students' health needs. Forms filed after the 30-day deadline and prior to camp arrival are subject to an additional administrative fee. Students in weeklong groups who arrive without completed health forms will not be allowed to participate.
10. Students participating in Pathfinder and Surveyor programs do not have to submit health forms.

For more information or to book your group, call 1-800-637-7223 or email [camps@rocketcenter.com](mailto:camps@rocketcenter.com).

Sales Center staff members are available to help weekdays from 7 a.m. to 6 p.m. CST.

## SPACECAMP ALUMNI SURVEY



Percentage of Space Camp graduates who took more STEM classes after attending camp



Percentage of Space Camp graduates that chose a career field related to aerospace, technology, energy, defense, or biotechnology



Percentage of Space Camp graduates who said their camp experience inspired their decision to enter a STEM field

# GROUP LEADER INFORMATION

Crew trainers complete extensive training and background evaluation and are certified in safety and program curriculum.

## SAFETY AND SECURITY

- Uniformed security guards on premises 24/7 and on-site in Habitats during nights and evenings.

## HABITATS

- Trainees are housed in Space Camp Habitat bays of seven beds or larger Habitat bays of 20 – 40 beds.
- Blankets, sheets, pillowcases and pillows are provided for our weeklong trainees.
- Towels and washcloths are not provided.
- Lockers are in each room. Trainees must provide their own padlock to secure their personal belongings.

## SPECIAL ACCOMMODATIONS

- Special effort is made to accommodate trainees with special needs, including hearing or visually-impaired, those with special dietary requirements or trainees in wheelchairs.
- Advanced notice is required for special accommodations.

## MEALS

- Breakfast, lunch and dinner are provided daily in the Space Camp Crew Galley.
- Meals are all-you-can eat, and we offer a non-repeating international menu of foods, vegetarian line, and full salad bar.
- We are very experienced in accommodating trainees with special dietary needs. Call (256) 721-7174 or email [specialdiets@spacecamp.com](mailto:specialdiets@spacecamp.com).  
(Four-week advanced notification required for special dietary requests.)



## CREW TRAINERS

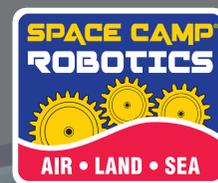
- Complete extensive training and certification in simulator safety, program fundamentals and age characteristics.
- Have a minimum of 30 hours of college.
- Are at least 20 years old.
- Have experience working with young people.
- Pass background and drug tests.

## CANCELLATION POLICY

- [www.spacecamp.com/policies/cancellation#grouppolicy](http://www.spacecamp.com/policies/cancellation#grouppolicy)

## REGISTRATION & CONFIRMATION

- Each group leader/program liaison will serve as the primary point of contact between their group and Space Camp.
- Group leaders will be sent links and instructions for online registration and completing health forms once the group has been confirmed.



# OFFICIAL SPACE GEAR®

YOUR ONE STOP  
SHOP FOR ALL  
THINGS

SPACE



\$99

## AUTHENTIC FLIGHT SUIT

Order the official flight suit for your Space Camp®, Space Academy® or Aviation Challenge® Camp adventure! These flight suits are representative of what real astronauts and jet fighter pilots wear and both come with official patches and your personalized leather name badge!

Flight suit

Youth sizes: 10-20, Adult sizes: S-XXL

\$99

## CLOTHING SET

We've combined our most popular clothing into one complete package! Tops are customized with the logo from your camp program. Space Camp set includes T-shirt, shorts, hooded sweatshirt, sweatpants and a backpack. Aviation Challenge Camp set includes T-shirt, hooded sweatshirt, camouflage pants and a knapsack.

Space Camp

Youth size: L, Adult sizes: S-XXL

Aviation Challenge Camp

Youth size: L, Adult sizes: S-XXL

*\*In the event a style shown is not available, a comparable item will be substituted.*

*All clothing ordered will be distributed at camp. When placing your order, please provide size. Upon arrival, all trainees are sized to ensure proper fit.*

\$15  
each

## CUSTOM TEAM PATCHES

(available after registration)

The team patch will be customized with the team members' names. Patches may be pre-ordered or ordered by the trainee at camp. Patches will be ready at graduation.

Available only for weeklong camps.

\$35  
each

## PHOTO DVD

(available after registration)

Want to see all of the activities your trainee participated in while at camp? Each crew trainer will take pictures throughout the week and the DVDs will be ready at graduation.

Available only for weeklong camps.

CONTACT US OR  
ORDER ONLINE

website [spacecampstore.com](http://spacecampstore.com)

phone (800) 637-7223 or (256) 837-3400



RocketCenterUSA