



UNITED STATES

SPACE CAMP[®]

1993 OFFICIAL ALABAMA/FLORIDA APPLICATION GUIDE
SPACE CAMP ■ SPACE ACADEMY ■ AVIATION CHALLENGE



THE FUTURE IS OUR YOUTH

140,000 enthusiastic young Americans have graduated from SPACE CAMP programs.

A Message from the Director:

For over ten years, U.S. SPACE CAMP has been capturing, building and spreading an enthusiasm for learning which has endured beyond primary and secondary school to college study and even career choices. Utilizing a hands-on approach, we continue to pursue our aggressive goal of motivating young people toward greater achievements in math and science studies through the context of the U.S. space program.

Our programs immerse students in a high technology environment and challenge them to yield discoveries about both space and aviation technology. Strapped into astronaut training simulators or high fidelity jet flight simulators, SPACE



CAMP, ACADEMY and AVIATION CHALLENGE trainees further enhance their ability to achieve by learning team-work, leadership and decision making skills. Perhaps even more important, students are encouraged to discover their personal potential, not just as astronauts, but as contributing members to any number of advanced fields.

By working with educators and the aerospace community, we will continue creating new adventures to challenge the hearts and

minds of young people. But programs like ours are just part of the equation. Parents, family, friends and, of course, teachers are key in providing the ongoing encouragement that enhances self-esteem and helps young people remain enthusiastic about school and learning.

To think more creatively, reason more sharply and understand more clearly—these are goals that will make our children the best they can be. These are the goals set forth at U.S. SPACE CAMP, ACADEMY and AVIATION CHALLENGE. In achieving these, we can better prepare the high-tech work force of the future and ensure that the U.S. retains and sharpens its scientifically advanced edge.

Edward O. Buckbee, Director
U.S. Space & Rocket Center
U.S. SPACE CAMP

A Message from America's First Astronaut:

If the United States is to remain a driving force in space exploration and high technology industry, it is going to take dedication and discipline. Communities, industry and government need to provide teachers and students the resources and opportunities which promote achievement.

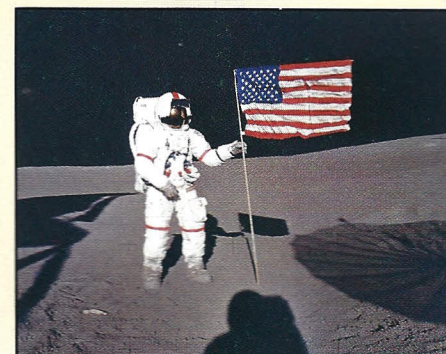
Toward this goal, the Mercury 7 Foundation has long been in the business of

awarding college scholarships to deserving college upper classmen who are striving to become part of today's highly technological world. It is in recent years that we have broadened our scope of interest to reflect the realization that aspirations for study in advanced fields should be stimulated at a much earlier age.

At U.S. SPACE CAMP Florida, the facility jointly operated by the U.S. SPACE CAMP Foundation and Mercury 7 Foundation, we seek to enthuse young people—to excite them about space and their potential as participants in the space program. Furthermore, we help them translate this excitement to academic studies which form the foundation of a productive career. And since teachers are key to maintaining educational excitement, they also benefit from inspirational programs which keep them abreast of science and technology through hands-on applications, classroom study and ongoing educational resources.

We have the dedication—the discipline, too. I am confident the United States will continue to be the leader in space exploration. You see, I've met the pioneers of the future...at U.S. SPACE CAMP.

Admiral Alan Shepard, USN (Ret.)
America's first Astronaut
President, Mercury 7 Foundation



Established in 1965 by the State of Alabama, empowered by the U.S. Congress and supported by the National Aeronautics and Space Administration, the U.S. Space & Rocket Center is the nation's leading hands-on space science museum. Since 1982, the U.S. Space & Rocket Center has fostered national and international outreach programs through the U.S. SPACE CAMP, ACADEMY (1984) and AVIATION CHALLENGE (1990) programs and through creation of the U.S. SPACE CAMP Foundation (1987). These entities are non-profit, educational organizations classified 501(c)3 by the IRS.

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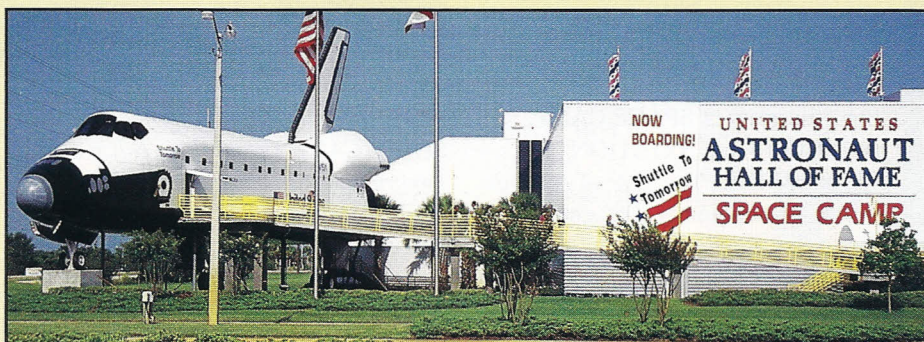
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EDUCATIONAL VALUES

THE MISSION:

To use the excitement of the U.S. Space program and/or military aviation to motivate young people toward greater achievements in math and science studies.

Long before the educational strategy of *America 2000* was circulated, we at U.S. SPACE CAMP, ACADEMY and AVIATION CHALLENGE recognized the benefit of making education a shared responsibility. Working with NASA, the military, industry and other professional educators, we provide students and teachers motivational math/science programs that (1) expand classroom knowledge, (2) offer an environment that prompts further inquiry, and (3) encourage participants to become all that they may become.

How successful have we been in our aim to motivate students? The effectiveness of our teaching methodologies is revealed by a recent survey of 4,000 CAMP and ACADEMY alumni who attended during the 1982-1986 time frame:

■ 80% enrolled in more math, specifically algebra and calculus.

■ 75% of trainees polled indicated they learned about career options; 49% made a career decision based on their CAMP experience.

■ 41% reported that their experience at SPACE CAMP was a key element in their choice of curriculum—87% chose engineering, math or science as their course of study.

■ 87% took more science courses, primarily in aerospace and engineering.



"...As Florida's public school system endeavors to stimulate greater involvement among all students in mathematics and the sciences, I am pleased to endorse this program (SPACE CAMP)."—Betty Castor, Commissioner of Education, Florida Department of Education

With such results, it isn't surprising that many states recognize the educational integrity of SPACE CAMP, ACADEMY and AVIATION CHALLENGE. The State of Alabama passed a resolution in 1986 endorsing U.S. SPACE CAMP and ACADEMY as "academically sound experiences for school students." Most school systems throughout the nation are following suit and allow excused absences to trainees. Notably, all programs are being correlated to national math and science standards.



"SPACE CAMP has the kind of excitement we need. It doesn't come from a text book. Teachers should know the best way to teach is hands-on."—Sue Ellen Cain, 1992 Georgia State Teacher of the Year



"Rockwell International is proud to be a major sponsor of programs like U.S. SPACE CAMP because we realize the importance of motivational math and science programs. The success of our country, our economic system and the success of corporations like ours depends upon that quality of education."—Sam Iacobellis, Executive Vice President and Chief Executive Officer, Rockwell International





"We need to get kids passionately interested in math, to get them excited about the wonders of science so they will pursue careers in critical science and engineering areas. SPACE CAMP is a superb way to generate that excitement—to make science fun, to open young eyes to the practical applications of science and engineering. It is a one-of-a-kind place where science comes alive. There is no doubt in my mind that many of our best, future scientists and engineers will someday be able to trace the genesis of their interest in science and engineering to their time at SPACE CAMP."

—Mike Mullane, three time shuttle astronaut and 1992 Astronaut in Residence at the U.S. Space & Rocket Center

Since today's students are tomorrow's work force, the educational integrity of CAMP, ACADEMY and AVIATION CHALLENGE has the approval of many leading corporations, particularly aerospace related companies. Such approval has warranted support for our non-profit, educational organizations.

"Whatever you dream, you can achieve. SPACE CAMP is a place to give your dreams wings. No other educational institution that I know of can inspire youngsters to create and achieve higher goals than SPACE CAMP."—Nichelle Nichols, "Lieutenant Uhura" of *Star Trek*

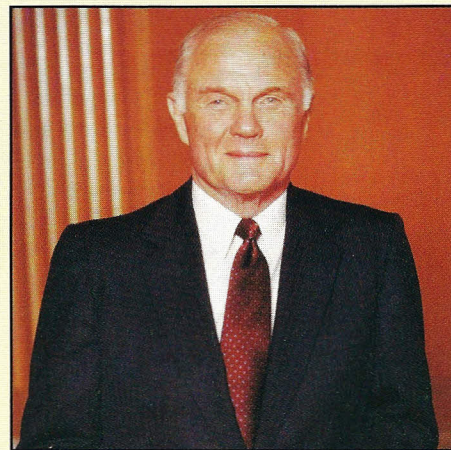
Motivating students is only part of our mission. Instilling knowledge and a renewed enthusiasm for teaching is also our aim. U.S. SPACE ACADEMY for Educators provides instruction and resources to keep teachers abreast of developing space technology and to help teachers identify and create new means of math and science instruction. Teachers from across the U.S. and more than 30 countries have participated in our special educator's academy to elevate learning enthusiasm in their home classrooms.

A survey of alumni attending *Space Orientation: A Hands-On Program for Educators* finds that 94% of respondents rated their experience as excellent to superior. Furthermore, 70% were inspired to seek additional educational programs in math and science. Clearly, U.S. SPACE ACADEMY for Educators fills an important niche in preparing teachers as dynamic instructors.

Another important partner in supplementing classroom education, the NASA Teacher Resource Center, located at the U.S. Space & Rocket Center and NASA's Kennedy Space Center, aims to ensure equitable access for all educators to high quality aerospace related resources. Visiting educators may bring blank video cassettes, 5 1/4" computer diskettes and slide film for making duplications (free of charge) during scheduled appointment times. Publications are also available at no charge.



In order to provide viable programs in an increasingly demanding education arena, U.S. SPACE CAMP, ACADEMY and AVIATION CHALLENGE education staff have developed the following mission statement: *"The mission of the Education Division is to provide sound program structure and curriculum materials which enhance and extend the science and math education trainees normally receive in school,"* says Dr. Tommie Blackwell, Director of Education. *"The unique educational activities and lessons making up the central core of U.S. SPACE CAMP/ ACADEMY and AVIATION CHALLENGE are designed to excite and motivate trainees toward greater academic achievement."*



"We don't have enough people studying math and the sciences, the hard sciences, the physical sciences. I think this (SPACE CAMP) is a great way of encouraging young people to do just that, exactly... What you're doing with the young people and the training at SPACE CAMP is what's going to keep us in the forefront."—U.S. Senator and former Astronaut John Glenn in speech to U.S. SPACE CAMP trainees, May 1992.

We know a small percentage of our graduates may well be the space flyers of tomorrow. *"But we also know,"* says Director Edward O. Buckbee, *"that if students are given the proper motivation and learn why they must have science and math, they can use that foundation and let it take them into a field of their choice."* And that is what SPACE CAMP is all about.



5

DAY MISSION:

Alabama Campus

Grades 4 thru 6

(*Note - Students must be attending classes in 4th grade by session date.)

The famous rocket scientist Wernher von Braun possessed a level of creativity and daring rarely surpassed. His vision of the future went well beyond his own lifetime



and his theories and ideas are researched yet today by experts in the aerospace industry. It was important to von Braun that his dreams would grow, flourish and become reality. By providing young people an arena to explore their own potential in the

aerospace and high technology industries, by allowing them to live out dreams of exploration and discovery, von Braun knew his

ambition could be fulfilled. But, how would he do this? SPACE CAMP was von Braun's solution.

"As both an aerospace executive and a father whose son has attended U.S. SPACE CAMP, I can't say enough about the kind of hands-on educational experiences SPACE CAMP has to offer. CAMP generated a level of learning enthusiasm in my son that is pure inspiration to me and others in my industry....it makes me excited about the future."—Marc Constantine, Vice President & General Manager, Aerojet Teck Systems, GenCorp Aerojet

Eyes front, ears open and hands-on is the best and most fun way to learn. From day one, as a SPACE CAMP trainee you are encouraged to question and discover, to assume a role you may one day possess in the realm of high technology. A strategically planned curriculum combines classroom instruction with simulated astronaut training

and interactive lessons. Leadership and teamwork take on new importance as you prepare for the ultimate test—two simulated space shuttle missions which place you in the orbiter's crew compartment and at mission control.

The Basics

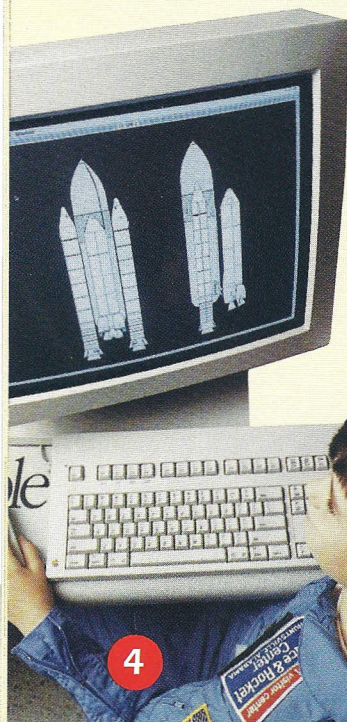
The basics come first, so learn the history and principles of propulsion and guidance. From monkeynaut Baker, to the first manned flights of Project Mercury, to shuttle launches—your acquired knowledge and skill will help you safely build

and launch your own model rocket. Historic achievements of manned space flight are highlighted with tours of the U.S. Space & Rocket Center and NASA's Marshall Space Flight Center.

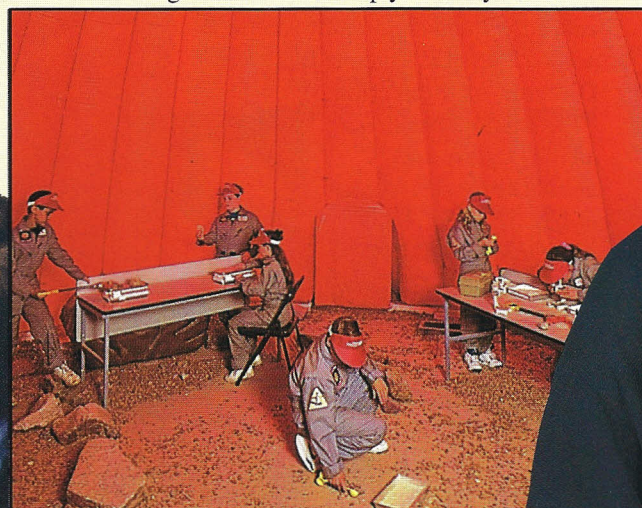
Astronaut and Mission Training

So, how do you become an astronaut? Learn what it takes to pursue an appointment to the astronaut corps and the physical and academic rigors of astronaut training. Astronaut conditioning makes physical fitness a daily way of life, so calisthenics start your day. Later, ordinary functions, like eating lunch, take on new interest as you sample a pre-packaged space meal similar to meals prepared for astronauts during orbital and lunar missions. Go ahead, take the plunge—and grab your swimsuit to experience simulated microgravity as your team builds a "space structure" under water. And clean is the name of the game, or rather "clean room," as you and your team construct a satellite in a sterile environment.

Back on the Training Center floor, control the MMU, or Manned Maneuvering Unit which allows shuttle astronauts to perform work untethered in and around the orbiter's cargo bay.



4



Strapped in the 5 Degrees of Freedom (5DF) simulator, you'll gain a new understanding of the difficulty of conducting EVA's (Extra-Vehicular Activities) in space. Wearing astronaut garb makes work even more arduous—an important lesson learned when you "suit up." Go head over heels in the Multi-Axis Trainer, a simulator patterned after earlier astronaut trainers which conditioned astronauts for possible disorientation due to tumbling in a flight emergency. Other simulation exercises include the 1/6th Gravity Chair, Centrifuge, Maneuvering Pod, Trajectory Chair and Space Walker.

Throughout the week, you will become increasingly familiar with our nation's current Space Transportation System—its parts, crew systems and other STS operations, in preparation for your simulated shuttle missions. "The Dream is Alive," shown in the U.S. Space & Rocket Center's Spacedome Theater, provides vivid realism to trainee exercises as it portrays NASA astronauts in actual STS missions. Armed with such insight, your team of twelve trainees is divided into shuttle crew and mission control. The countdown begins to a long-anticipated event. Commander, pilot, mission specialists and payload specialists—the shuttle crew keeps tight contact with the "professionals" at mission control from launch to landing. Teamwork and training are put to the test as you try to achieve mission goals and bring the crew in safely. Two missions provide role swapping opportunities from crew to mission control.

Space Technology and the Future

You could be the first person to set foot on Martian soil. Fueled by the realization that the first manned mission to Mars could be as early as 2019, you will experience simulated flights between Earth and Space Station, Space Station and Mars. You and your team will board the motion-based Mars Acclimated Research Ship (MARS) for your multi-sensory fly-by. Briefings and hands-on mission scenarios teach you about the Martian landscape, atmosphere and other aspects of the Red Planet.

America's space station is an integral part of extended space flight (such as the mission to Mars). An overview of space station goals will assist you and your teammates in fulfilling the assignment of designing and building a space station.

The benefits of future missions and extended space flight will be explored with an eye on industry, agriculture and the environment. Practical uses for space program innovations will be discussed.

Tuition includes meals, educational programs, log book and materials, accommodations, T-shirt and visor.

Arrival time is Sunday, between 1:00 p.m. and 5:00 p.m. Family and friends who wish to attend the 11:00 a.m. graduation on Friday should report to the U.S. Space & Rocket Center's main lobby for each ceremony's location.



(Spring Blue week arrival is Wednesday, between 1:00 p.m. and 5:00 p.m. Graduation is Monday at 11:00 a.m.)

Each graduating trainee receives U.S. SPACE CAMP wings, a certificate and a color group photograph. Special team and individual awards are also presented.

Departing flights should be scheduled after 12:30 p.m. on Friday. (Monday for Spring Blue week sessions.)



U.S. SPACE CAMP: FLORIDA

5

DAY MISSION:

Florida Campus

Grades 4 thru 7

(*Note - Students must be attending classes in 4th grade by session date.)

The First and the Future is the theme of the U.S. Astronaut Hall of Fame/U.S. SPACE CAMP complex in Titusville, Florida. Teamed with America's first astronauts, the Mercury 7 crew (represented as the Mercury 7 Foundation), the U.S. SPACE CAMP Foundation offers an additional program for the younger set. Adjacent to NASA's

responsibility. *SPACE CAMP is a lot of work, but when you leave there is a feeling of accomplishment and you know you have learned something.*"—Timothy M. Pothast, Lima, OH

Now boarding! You and your teammates will climb into the Shuttle to Tomorrow, the latest addition to the U.S. SPACE CAMP/U.S. Astronaut Hall of Fame complex.

A full-size space shuttle orbiter, the Shuttle to Tomorrow features a multi-media space shuttle flight experience in its cargo bay. But the rumble of the Shuttle to Tomorrow is just one of the thrilling missions you'll experience. Be sure to take notes as you prepare for your one-hour space shuttle mission in the U.S. SPACE CAMP Training Center.

The Basics

Learn the history and principles of propulsion and guidance and put your knowledge to good use when you construct and launch your own model rocket. Historic achievements of manned space flight will be highlighted with tours of the U.S. Astronaut Hall of Fame and NASA's Kennedy Space Center.

Astronaut and Mission Training

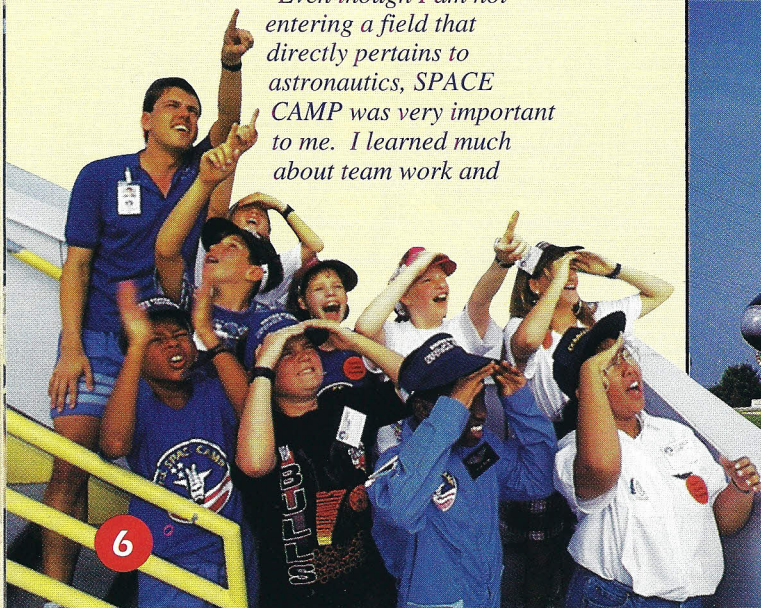
This is your chance to find out what it takes to be an astronaut—the academics, the emotion and the physical rigors.

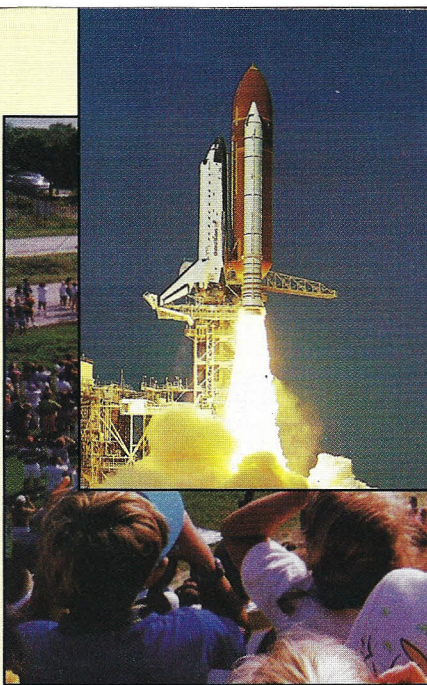
Get fit, and make it a way of life—the astronauts do! That means get ready for early morning exercise. After you work up an appetite, you'll be given an opportunity to dig into a pre-packaged space meal similar to meals prepared for astronauts during orbital and lunar missions. Food digested? Grab your swim gear and take activities poolside where you'll experience simulated microgravity as your team accepts the challenge of the tetrahedron assembly using principles required to construct future space stations. Later, "clean up your act" as you and your team construct a satellite in a sterile, clean room environment.



launch complex, U.S. SPACE CAMP curriculum benefits with input from Kennedy Space Center personnel.

"Even though I am not entering a field that directly pertains to astronautics, SPACE CAMP was very important to me. I learned much about team work and





Thought you were past playing dress up? No way! Clad in a space suit and helmet you'll gain a better understanding of the difficulties of working in space. Head over heels is the feeling you'll have for the Multi-Axis Trainer. This simulator is patterned after the earlier astronaut trainers which conditioned astronauts for possible disorientation due to tumbling in a flight emergency. Other simulation exercises include the 1/6th Gravity Chair, 5 Degrees of Freedom (5DF) simulator and the Trajectory Chair.

Throughout the week, you will become increasingly familiar with our nation's current Space Transportation System—its parts, crew systems and other STS operations, in preparation for your simulated shuttle mission. Finally, you and your team of twelve

trainees are divided into orbiter and mission control crews. The countdown begins. Commander, pilot, mission specialists and payload specialists—the crew keeps tight contact with the professionals at mission control from launch to landing. Teamwork and training are put to the test as you try to achieve mission goals and bring the crew in safely.

Space Technology and the Future

Explore living and working in space with simulated space station training featuring the Manned Maneuvering Unit (MMU) and Space Station Mobility Trainer. Plus, with your teammates, you will fulfill the assignment of designing and building a space station model.

The benefits of future missions and extended space flight will be explored with an eye on industry, agriculture and the environment. Practical uses for space program innovations will be discussed.

Tuition includes meals, educational programs, log book and materials, accommodations, T-shirt and visor.

Arrival time is Sunday, between 1:00 p.m. and 4:00 p.m. Family and friends who wish to attend the 9:00 a.m. graduation ceremony on Friday should report to the SPACE CAMP



lobby for the ceremony's location. (Blue week arrival is Wednesday, between 1 p.m. and 4 p.m. Graduation is Monday at 9:00 a.m.)

Each graduating trainee receives U.S. SPACE CAMP wings, a certificate and a color group photograph. Special team and individual awards are also presented.

Departing flights should be scheduled after 1:00 p.m. on Friday. (Monday for Spring Blue Week Sessions.)



5

DAY MISSION:

Alabama Campus

Grades 7 thru 9

The excitement and demand generated by the U.S. SPACE CAMP program in its early years quickly found program planners striving to create a more advanced program for slightly older youth. Consequently, in 1984 U.S. SPACE ACADEMY made its public debut. Soon after, many states across the nation began dubbing the programs as "academically sound experiences for school students." Notably, such hands-on programs tend to narrow the gender-achievement gap normally associated with math and science studies, with boys and girls doing equally well.

"We, as educators, would be naive to think that we are the only ones who can turn on the electricity which reveals children's brightness. Sometimes it takes a different kind of experience to spark imagination and creativity. SPACE CAMP and ACADEMY are terrific tools to turn the light on." — Lisette Clemons, 1989 Illinois Distinguished Educator and U.S. SPACE CAMP Education Consultant

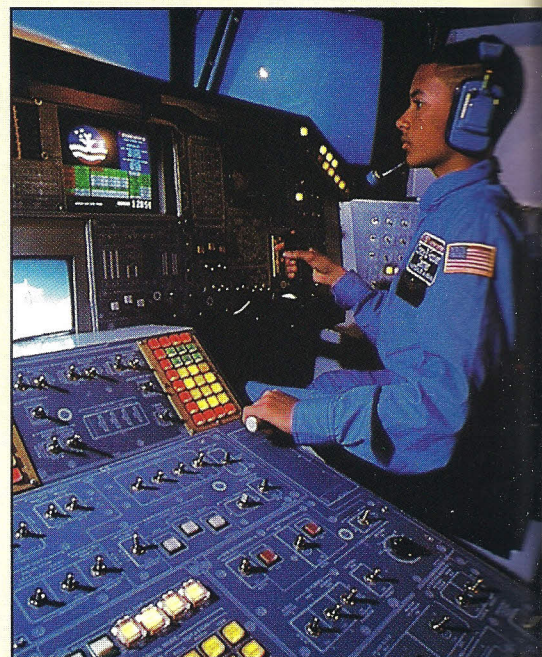
Like U.S. SPACE CAMP trainees, you will be encouraged to test your aptitude as the engineers, scientists and astronauts of the future. With an extra emphasis on space shuttle operations, however, you will be challenged to increase your critical thinking and decision-making skills beyond your

younger CAMP colleagues. Mission training is intensified and the desire to succeed is sharpened.



The Basics

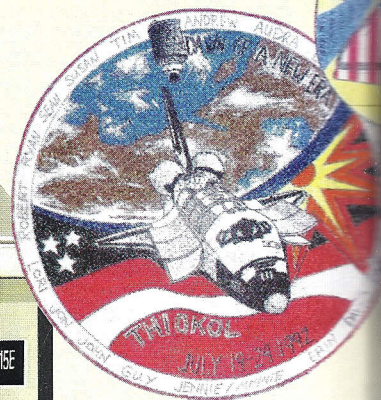
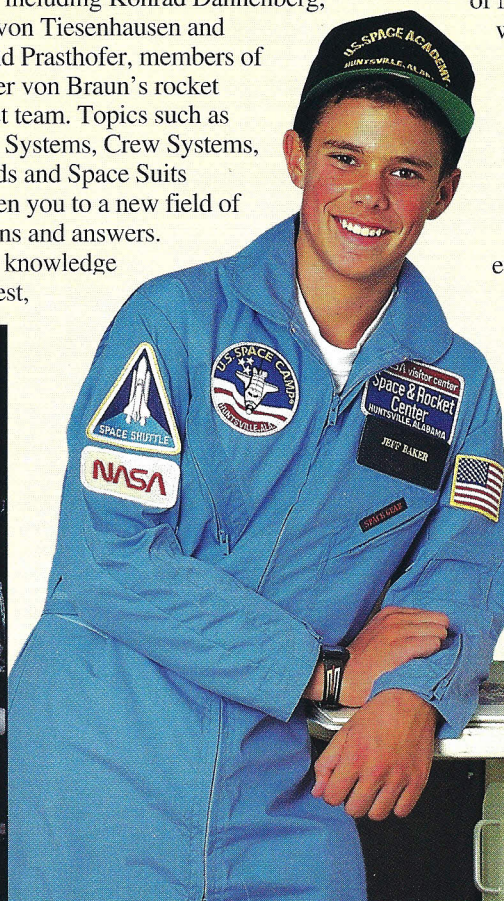
An historical overview of manned space-flight, complimented by tours of the U.S. Space & Rocket Center and NASA's Marshall Space Flight Center, will lay the groundwork for a more in-depth look at the backbone of the Space Transportation System (STS). A thorough review of shuttle propulsion systems including the External Tank, Solid Rocket Boosters, Main and Auxiliary Engines is enhanced by the Space Center's resident propulsion experts including Konrad Dannenberg, Georg von Tiesenhausen and Wilibald Prasthofer, members of Wernher von Braun's rocket scientist team. Topics such as Orbiter Systems, Crew Systems, Payloads and Space Suits enlighten you to a new field of questions and answers. Putting knowledge to the test,



construction and launch of individual model rockets provides friendly competition.

Astronaut and Mission Training

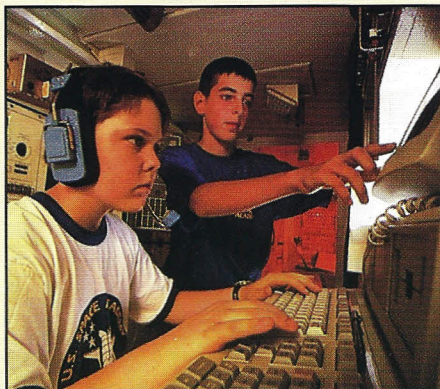
The requirements and selection procedures of NASA astronauts are highlighted while other career options in the aerospace industry and NASA are discussed. During your space adventure you'll be invited to experience many of the arduous physical and mental training exercises experienced by NASA's astronaut corps. Not every aspect of the space program is automated: physical fitness means old fashioned physical training, so energize and look alive with early morning



exercise. You'll "gravitate and motivate" with microgravity training including underwater exercises in a nearby pool and use of many of the simulators, like the 1/6th Gravity Chair and the 5DF (Degrees of Freedom) trainer found on the U.S. SPACE ACADEMY Training Center floor. Other simulators utilized in this program include the Multi-Axis, Manned Maneuvering Unit, Space Station Mobility Trainer and Maneuvering Pod.

Seemingly routine functions, like eating lunch, take on new interest as you and your teammates sample a pre-packaged astronaut space meal. Constructing a satellite—classified as either Earth observation, communications or science—in a sterile "clean room" environment is another team exercise that is anything but routine (unless you're an aerospace professional, that is). Your training will be enhanced by watching actual astronaut missions captured on film by the astronauts themselves and shown in the U.S. Space & Rocket Center's Spacedome Theater.

Having received your mission assignments of either shuttle crew, Space Station or mission control, familiarization with the highly accurate space shuttle cockpit simulator, full-size Spacelab, space station modules and/or mission control center takes on new energy. Preparation intensifies for the two upcoming missions and then—the moment arrives. Adrenaline levels soar as the countdown begins. We have lift-off. The commander and pilot achieve orbit, and payload specialists and space station specialists conduct experiments inside Spacelab and Space Station while mission



specialists perform EVA's (Extra-Vehicular Activities) with the remote manipulating arm outside the orbiter's crew cabin. After docking with the space station, the shuttle crew returns to Earth and you exchange team assignments. Just remember, it takes teamwork to overcome the occasional "problem" which pops up along the way.

Space Technology and the Future

Discuss your views of future space missions and upcoming technology. Interactive lessons on the National Aerospace Plane Program, Advanced Launch System, Space Station and Mission to Mars are certain to gain interest and elicit questions. An exercise in constructing a large space structure provides ample opportunity to apply your critical thinking skills and creative energies.

"...But the most important benefit cannot be measured. The motivation and enthusiasm I received from SPACE CAMP/ACADEMY prevail even today... As a direct result of my unique experiences, I received a full scholarship to the

Georgia Institute of Technology from the United States Navy. I am now a NROTC midshipman awaiting a commission and graduation in December of 1993 at which time I will enter flight school... After

attaining the required flight time, I will apply to the astronaut corps every year until I am accepted."—Midn. Robert L. Byers, USNR, Cumming, GA

Tuition includes meals, educational programs and materials, accommodations, T-shirt and hat.

Arrival time is Sunday, between 1:00 p.m. and 5:00 p.m. Family and friends who wish to attend the 11:00 a.m. graduation ceremony on Friday should report to the U.S. Space & Rocket Center's main lobby for each ceremony's location. (Spring Blue Week arrival is Wednesday, between 1:00 p.m. and 5:00 p.m.). Graduation is Monday at 11:00 a.m.).

Each graduating trainee receives U.S. SPACE ACADEMY wings, a certificate and a color group photograph. Special team and individual awards are also presented.

Departing flights should be scheduled after 12:30 p.m. on Friday. (Monday for Spring Blue Week Sessions.)



8

DAY MISSION:

Alabama Campus

Grades 10 thru 12

By the time a student has reached high school, college and career plans have become a serious issue—especially for those students considering a high technology career which demands an aggressive course of math and science prerequisites. In our quest to provide more challenging experiences for older students, U.S. SPACE ACADEMY II has carefully mixed classroom study and hands-on training to garner the approval of students, education and industry alike. The core curriculum provides a broad-based context from which students may question, explore and discover. Three separate tracks of study—Technology, Engineering and Aerospace allow students to request specific orientation and receive invaluable insight to career aspirations.

All participants who successfully complete the program will receive one hour of college freshman level science credit from the University of Alabama in Huntsville. Transcripts will be mailed approximately six weeks after session completion. Cost of college credit is included in your ACADEMY II tuition.

"In school, you're reading books and listening to a teacher lecture. You're not doing anything to understand why you're learning this. Here, you see the physics, the chemistry. You see it all applied and how it gets a person from here to the moon and back. Once you understand it, you look at the sciences in a different way."—John d'Adesky, Miami, Florida (7 time attendee)



Taking cues from the CAMP and ACADEMY I programs, basics come first with a review of space flight history, propulsion, rocketry and astronomy. More than 90 hours of instruction means a lot of 14-hour days and immersion in topics such as shuttle orientation, plasma physics, crew systems, orbiter systems, space physiology, international space missions, the future of space exploration and aerospace careers. Patterned after NASA's crew training manuals, your curriculum is supported by

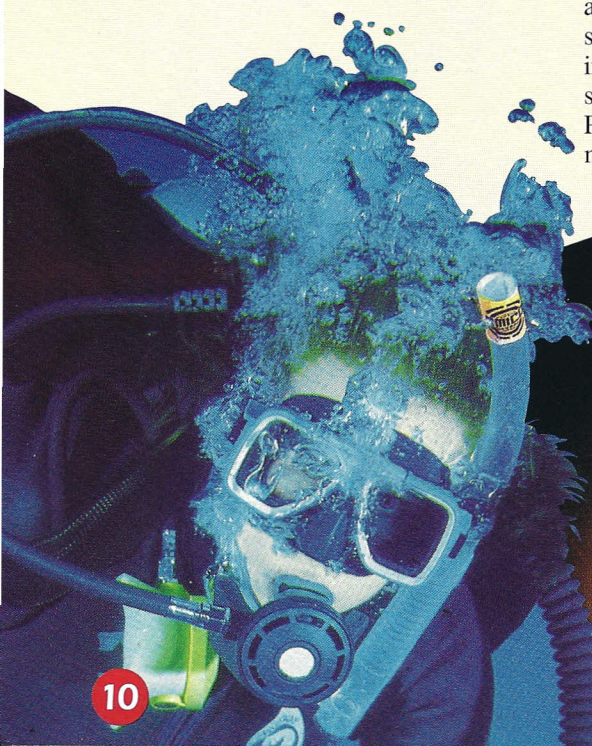
participating aerospace professionals from both NASA and industry. Even though you follow track-specific instruction, all team members work together in integrated group sessions for space shuttle mission planning.

You and your team will conduct three, two-hour missions, rotating roles in mission control, the shuttle orbiter and space station.

Critical thinking and decision making skills are put to the test as you prepare for your **Extended Duration Mission (EDM)**. Lasting either 12 or 24 hours (ask your SPACE ACADEMY reservationist about sessions featuring a 24-hour mission) your EDM is the ultimate test of knowledge and teamwork.

Technology Track - As an aspiring payload specialist, you will design and conduct experiments aboard the space shuttle and space station simulators. Experiments

include gene mapping, human physiology testing, pre-EVA (Extra-Vehicular Activity) physicals, and soil and water analysis. The Underwater Astronaut Trainer (UAT) will become a familiar landmark as you dive into SCUBA training in preparation for conducting experiments in the "microgravity" of space station. Track specific instruction includes astrophysics, materials processing and emergency medical procedures. Mission Control positions include Public Affairs Officer and Science Officer.



Engineering Track - This track is designed to provide hands-on mission training aboard the space shuttle (mission specialist) and space station (space station specialist). You'll be in the swim of things when you take part in an entry-level SCUBA training program. This microgravity environment is an ideal setting to practice mission EVA's (Extra-Vehicular Activities). Academic instruction includes robotics, engineering fields and optics. Mission Control positions include Propulsions Officer or INCO.

Aerospace Track - Placed in this course of study, you will focus upon educational requirements necessary for a career as shuttle commander, shuttle pilot or aviation professional. Hands-on training includes exercises in space shuttle piloting and Mission Operations Control Room scenarios. Flight simulations training will take you to the Aviation Challenge complex where you will strive to quicken your reflexes and decision-making ability. Lectures and coursework include celestial navigation, orbital mechanics and space piloting. Space station roles include Space Station Commander or Space Station Officer. Mission Control positions include Flight Director or CAPCOM.



"As for my career, I have to say that SPACE CAMP had a very definite impact. In 1991 I received my B.S. in Physics from Virginia Polytechnic Institute and State University. I also graduated with a minor in Mathematics and an emphasis in Astrophysics...I hope to attend the University of Michigan in the fall as a member of their graduate Nuclear Engineering Department."—Jon Davis, Annadale, VA

Tuition includes one hour of college credit, meals, educational programs and materials, accommodations and T-shirt.

Arrival time is Saturday, between 1:00 p.m. and 5:00 p.m. Family and friends who wish to attend the 1:00 p.m. graduation ceremony on Saturday should report to the U.S. Space & Rocket Center's main lobby for each ceremony's location.

Each graduating trainee receives U.S. SPACE ACADEMY wings, a certificate and a color group photograph. Special team and individual awards are also presented.

Departing flights should be scheduled after 3:30 p.m. on Saturday.

PLEASE NOTE: Tracks are assigned on a first come basis. Each applicant will receive approval forms for SCUBA instruction to be signed by a physician and parent/guardian. Completed SCUBA forms (for Engineering and Technology trainees) must be returned to SPACE ACADEMY at least six weeks prior to session date. Physical requirements are noted on form. Trainees with any history of asthma or ear problems will **not** be permitted to SCUBA dive.



5

DAY MISSION:

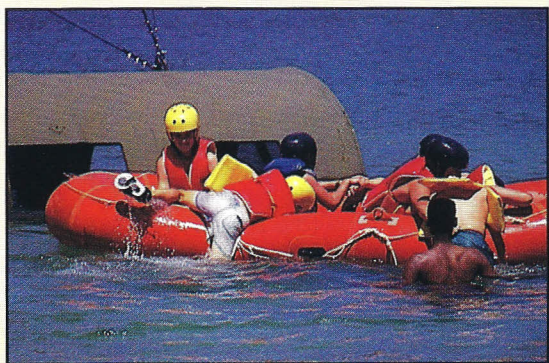
AVIATION CHALLENGE

Basic

Grades 7 thru 9

Alabama Campus

The U.S. military services have historically filled the ranks of shuttle commander and pilot, as well as provided many of the astronaut corps' mission specialists. AVIATION CHALLENGE, first offered on a very limited basis in 1990, has since gained momentum as a viable partner with the CAMP and ACADEMY programs.



AVIATION CHALLENGE motivates young people to master advanced math and science studies in preparation for high technology careers in aviation and aerospace disciplines. Both mental and physical agility are tested when trainees accept the AVIATION CHALLENGE; and just like the CAMP and ACADEMY programs, AVIATION CHALLENGE gives students the opportunity to grow socially and emotionally as they develop team-building and leadership skills.

Developed from actual military jet pilot training programs, the Basic and Intermediate programs of AVIATION CHALLENGE are designed to provide trainees insight into military and civilian aviation careers. Coursework in aerodynamics, flight

systems, propulsion, tactical maneuvering, and emergency ejection is matched with hands-on jet flight simulator training, fitness and survival training. Trainees are housed on-site at the U.S. Space & Rocket Center in squadron bays.

So, you have a lot of flight experience? A little flight experience? No flight experience? Whatever your level of proficiency, if you have a keen fascination with high-tech military aircraft and an enthusiasm for flying, you have come to the right place.

Fitness Training

Your day begins early with calisthenics and obstacle course training. Water survival training, including life raft operations and the Helicopter Dunker, provides training identical to programs received at basic flight schools of the Army, Navy and Air Force. Sharpen your skills and maybe you'll come out a winner in the Aviation Olympics held at the end of the week!

Military Operations Training

You'll investigate, study and assimilate various military operations procedures and undergo training exercises in basic flight maneuvers. The U.S. Navy Fighter Weapons School is discussed and a simulation of the Air Force's famous "Red Flag" readiness drill is highlighted. The daily routine includes preparing a flight plan, reviewing your weather report, conducting a



mission prebrief, flying your mission and returning to the "ready room" for a mission debrief.

Navigation, Flight Maneuvers and Aerial Combat

Program authenticity is obvious as former military pilots conduct lectures and discussions on tactical maneuvering, navigation and military aviation careers. Use your newly acquired knowledge as you pilot a high fidelity jet flight simulator through training scenarios designed to prepare you for your final, Red Flag mission. Only one pilot/co-pilot will be able to walk away as you vie for top honors in air-to-air combat.

For arrival and graduation information, see page 13.

"It's one of the best times you can have even if you're not looking for a space or aviation career. It teaches teamwork and leadership and increased my self confidence."—Billy Hodgkins, Apopka, FL



HOW TO REGISTER

Tuition includes meals, accommodations and educational materials

Registration Procedures

There are three ways to register for any of our exciting adventures.

1 Telephone: To reserve a specific SPACE CAMP, ACADEMY or AVIATION CHALLENGE session by telephone, call our toll-free number: **1-800-63 SPACE**

Have your Visa, MasterCard, Discover or American Express card ready for the reservationist. Accounts will be billed at the time of reservation. **Application forms should be completed and mailed in addition to your phone reservation.**

2 FAX: Another method of registration is to complete the application form and send it with credit card information via FAX transmission to 205-837-6137. Please follow-up with a phone call to 1-800-63 SPACE to verify FAX receipt.

3 Mail: You may also register by mailing a completed application, noting choice of session dates (subject to availability) to:

U.S. SPACE CAMP
1993 Reservations
P.O. Box 070015
Huntsville, AL 35807-7015

*Applications for Florida sessions should also be sent to the Alabama address.

A printed Confirmation Notice with additional information will be sent after your application is received and processed. Both a Transportation Form (even if travelling by car) and Health Form must be completed, mailed and received by our offices prior to the session date. Acceptance to programs depends upon receipt and approval of these forms.

Save \$50 with a SPACE CAMP Friend

Two or more U.S. SPACE CAMP trainees (grades 4, 5 or 6) who plan to attend prior to May 31, 1993, may take advantage of the \$50 buddy discount if registering for the same session. Call for more details. (Not applicable to Easter week.)

Multiple Family Member Discount

When more than one child from the same family with the same address (ie: brothers and sisters) attends any program during the same session week, the first child will be at full tuition, each additional child will receive a 10% discount.

1993 TUITION

Youth	Grade	Days	Feb.-May***	June-Aug.	Sept.-Dec
U.S. SPACE CAMP-Alabama	4-6	5	\$475	\$600	\$475
U.S. SPACE CAMP-Florida	4-7	5	\$475	\$600	\$475
U.S. SPACE ACADEMY Level I	7-9	5	\$525	\$650	\$525
SPACE ACADEMY Level II	10-12	8	\$725	\$725	\$725
AVIATION CHALLENGE (Both)	7-12	5	\$525	\$650	\$525
Adult					
Adult SPACE ACADEMY LEVEL I		3	\$500	\$500	\$500
Adult SPACE ACADEMY LEVEL II		8	—	—	\$700
Adult AV. CHALLENGE		3	\$500	\$500	\$500
SPACE ACADEMY FOR EDUCATORS*		5	\$650	\$650	\$650
EDUCATORS CREDIT COURSES**		5	\$750	\$750	\$750
PARENT & CHILD SPACE CAMP**		3	†\$250	†\$250	†\$250

*Denotes Alabama location only. **Denotes programs in Alabama and Florida. ***Easter tuitions from April 4-23 are the same as June-August session. Session 22, May 30-June 4 tuition is the same as June-August. Tuitions are subject to change without notice. †\$500 total tuition based on one parent and one child attending together.

Multiple Attendance Discounts

If you have attended three sessions of SPACE CAMP, ACADEMY or AVIATION CHALLENGE, you will receive 10% off your tuition when attending your fourth through seventh session. Registration for your eighth (or more) session qualifies you for a 25% discount.

Consecutive Week Discounts

When a child is registered to attend programs in consecutive weeks, a discount of 10% will be offered on the 2nd week. Please note: Weeks must be taken consecutively.

Only one discount may be taken at a time.

Refunds

If you must cancel your registration, you will receive:

- 90% of the tuition if a written notice is received 8 weeks or more prior to the session start.
- 75% of the tuition if a written notice is received 4 weeks or more prior to the session start.

Cancellations four weeks or less before session start forfeit the tuition. Upon physician's verification of illness or accident, you may reschedule sessions canceled four weeks or less before session start. Trainees who must leave during training for emergency reasons or illness may be invited to return at a future date at no additional charge (subject to program director approval). Trainees who leave for other reasons (homesickness, etc.) will not receive a refund.

Counselor In Training Program

If you're a college freshman and interested in becoming a SPACE CAMP counselor, call for information on our Counselor In Training Program. You'll spend four weeks as a counselor assistant, helping you learn more about the space program and astronaut training activities with the potential of becoming a SPACE CAMP counselor. Special tuitions and curriculum are available.

Transfer Request

All transfer requests must be received two weeks prior to your scheduled session. Any transfer request received less than two weeks prior to your session will not be accepted.

Gift Certificates

Gift certificates are available for all programs. In fact, they make excellent Christmas gifts. Please allow 4-6 weeks to process your gift certificate request.

Date Change Fee

A \$50 transfer fee will be assessed if you transfer from one year to another. Any applicable tuition increases will also be charged. (Rates are subject to change. We reserve the right to cancel or change dates.)

Waiting Lists

If your desired session is filled, you can be placed on a waiting list. Waiting list reservations are refunded at 100 percent if you choose to cancel or if no openings are available. In the event you clear the waiting list for your chosen session, you will be notified with a confirmation letter.

1993 SESSION DATES

Call 1-800-63-SPACE to reserve your mission date

GRADES 4,5,6

U.S. SPACE CAMP (Alabama)

SESSION/DATE	SESSION/DATE
39 Sept 27-Oct 2 '92	20 May 16-21
40 Oct 4-9 '92	21 May 23-28
41 Oct 11-16 '92	22 May 30-June 4
42 Oct 18-23 '92	23 June 6-11
43 Oct 25-30 '92	24 June 13-18
44 Nov 1-6 '92	25 June 20-25
45 Nov 8-13 '92	26 June 27-July 2
46 Nov 15-20 '92	27 July 4-9
53 Nov 22-27 '92	28 July 11-16
48 Nov 29-Dec 4 '92	29 July 18-23
49 Dec 6-11 '92	30 July 25-30
50 Dec 13-18 '92	31 Aug 1-6
52 Dec 27-Jan 1	32 Aug 8-13
8 Feb 21-26	33 Aug 15-20
*68 Feb 24-March 1	34 Aug 22-27
9 Feb 28-March 5	35 Aug 29-Sept 3
*69 March 3-8	36 Sept 5-10
10 March 7-12	37 Sept 12-17
*70 March 10-15	38 Sept 19-24
11 March 14-19	39 Sept 26-Oct 1
*71 March 17-22	40 Oct 3-8
12 March 21-26	41 Oct 10-15
*72 March 24-29	42 Oct 17-22
13 March 28-April 2	43 Oct 24-29
*73 March 31-April 5	44 Oct 31-Nov 5
14 April 4-9	45 Nov 7-12
*74 April 7-12	46 Nov 14-19
15 April 11-16	47 Nov 21-26
*75 April 14-19	48 Nov 28-Dec 3
16 April 18-23	49 Dec 5-10
*76 April 21-26	50 Dec 12-17
17 April 25-30	51 Dec 19-24
18 May 2-7	52 Dec 26-31
19 May 9-14	

GRADES 4,5,6,7

U.S. SPACE CAMP (Florida)

SESSION/DATE	SESSION/DATE
9 Feb 28-March 5	21 May 23-28
10 March 7-12	22 May 30-June 4
*70 March 10-15	23 June 6-11
11 March 14-19	24 June 13-18
*71 March 17-22	25 June 20-25
12 March 21-26	26 June 27-July 2
*72 March 24-29	27 July 4-9
13 March 28-April 2	28 July 11-16
*73 March 31-April 5	29 July 18-23
14 April 4-9	30 July 25-30
*74 April 7-12	31 Aug 1-6
15 April 11-16	32 Aug 8-13
*75 April 14-19	33 Aug 15-20
16 April 18-23	34 Aug 22-27
*76 April 21-26	35 Aug 29-Sept 3
17 April 25-30	36 Sept 5-10
18 May 2-7	37 Sept 12-17
19 May 9-14	38 Sept 19-24
20 May 16-21	39 Sept 26-31

GRADES 7,8,9

AVIATION CHALLENGE Basic

SESSION/DATE	SESSION/DATE
*68 Feb 24-March 1	25 June 20-25
*69 March 3-8	26 June 27-July 2
*70 March 10-15	27 July 4-9
*71 March 17-22	28 July 11-16
*72 March 24-29	29 July 18-23
*73 March 31-April 5	30 July 25-30
*74 April 7-12	31 Aug 1-6
*75 April 14-19	32 Aug 8-13
*76 April 21-26	33 Aug 15-20
*77 April 28-May 3	34 Aug 22-27
*78 May 5-10	35 Aug 29-Sept 3
*79 May 12-17	36 Sept 5-10
21 May 23-28	37 Sept 12-17
22 May 30-June 4	38 Sept 19-24
23 June 6-11	39 Sept 26-Oct 1
24 June 13-18	

GRADES 7,8,9

U.S. SPACE ACADEMY Level I

Same as U.S. SPACE CAMP Alabama

GRADES 10,11,12

AVIATION CHALLENGE Intermediate

SESSION/DATE	SESSION/DATE
74 April 7-12	28 July 11-16
75 April 14-19	29 July 18-23
76 April 21-26	30 July 25-30
77 April 28-May 3	31 Aug 1-6
78 May 5-10	32 Aug 8-13
79 May 12-17	33 Aug 15-20
21 May 23-28	34 Aug 22-27
22 May 30-June 4	35 Aug 29-Sept 3
23 June 6-11	36 Sept 5-10
24 June 13-18	37 Sept 12-17
25 June 20-25	38 Sept 19-24
26 June 27-July 2	39 Sept 26-Oct 1
27 July 4-9	

GRADES 10,11,12

U.S. SPACE ACADEMY Level II

SESSION/DATE	SESSION/DATE
39 Sept 26-Oct 3 '92	25 June 19-26
40 Oct 3-10 '92	26 June 26-July 3
41 Oct 10-17 '92	27 July 3-10
42 Oct 17-24 '92	28 July 10-17
43 Oct 24-31 '92	29 July 17-24
44 Oct 31-Nov 7 '92	30 July 24-31
45 Nov 7-14 '92	31 July 31-Aug 7
46 Nov 14-21 '92	32 Aug 7-14
48 Nov 21-28 '92	33 Aug 14-21
49 Nov 28-Dec 5 '92	34 Aug 21-28
49 Dec 5-12 '92	35 Aug 28-Sept 4
50 Dec 12-19 '92	36 Sept 4-11
52 Dec 26-Jan 2 '92	37 Sept 11-18
8 Feb 20-27	38 Sept 18-25
9 Feb 27-March 6	39 Sept 25-Oct 2
10 March 6-13	40 Oct 2-9
11 March 13-20	41 Oct 9-16
12 March 20-27	42 Oct 16-23
13 March 27-April 3	43 Oct 23-30
14 April 3-10	44 Oct 30-Nov 6
15 April 10-17	45 Nov 6-13
16 April 17-24	46 Nov 13-20
17 April 24-May 1	47 Nov 20-27
18 May 1-8	48 Nov 27-Dec 4
19 May 8-15	49 Dec 4-11
20 May 15-22	50 Dec 11-18
21 May 22-29	**52 Dec 26-Jan 2
22 May 29-June 5	
23 June 5-12	
24 June 12-19	

**Sunday-Sunday due to holiday

ADULT

U.S. SPACE ACADEMY Level I

SESSION/DATE	SESSION/DATE
40 Oct 2-4 '92	28 July 16-18
41 Oct 9-11 '92	29 July 23-25
42 Oct 16-18 '92	30 July 30-Aug 1
43 Oct 23-25 '92	31 Aug 6-8
45 Nov 6-8 '92	32 Aug 13-15
46 Nov 13-15 '92	35 Sept 3-5
17 April 30-May 2	36 Sept 10-12
18 May 7-9	37 Sept 17-19
19 May 14-16	38 Sept 24-26
20 May 21-23	39 Oct 1-3
21 May 28-30	40 Oct 8-10
22 June 4-6	41 Oct 15-17
23 June 11-13	42 Oct 22-24
24 June 18-20	43 Oct 29-31
25 June 25-27	44 Nov 5-7
26 July 2-4	45 Nov 12-14
27 July 9-11	

*Wednesday-Monday Spring Blue Week Sessions

ADULT

U.S. SPACE ACADEMY Level II

SESSION/DATE	SESSION/DATE
43 Oct 24-31 '92	43 Oct 23-30
45 Nov 7-14 '92	45 Nov 6-13
46 Nov 14-21 '92	46 Nov 13-20
48 Nov 28-Dec 5 '92	48 Nov 27-Dec 4
49 Dec 5-12 '92	49 Dec 4-11

ADULT

AVIATION CHALLENGE

SESSION/DATE	SESSION/DATE
21 May 28-30	35 Sept 3-5
22 June 4-6	36 Sept 10-12
23 June 11-13	37 Sept 17-19
27 July 9-11	38 Sept 24-26
32 Aug 13-15	

PARENT/CHILD

Florida Campus

SESSION/DATE	SESSION/DATE
41 Oct 9-11 '92	26 July 2-4
48 Nov 27-29 '92	27 July 9-11
52 Dec 26-28 '92	28 July 16-18
1 Jan 1-3	29 July 23-25
3 Jan 15-17	30 July 30-Aug 1
6 Feb 12-14	31 Aug 6-8
18 May 7-9	32 Aug 13-15
19 May 14-16	33 Aug 20-22
20 May 21-23	34 Aug 27-29
21 May 28-30	35 Sept 3-5
22 June 4-6	37 Sept 17-19
23 June 11-13	40 Oct 8-10
24 June 18-20	47 Nov 26-28
25 June 25-27	52 Dec 26-28

PARENT/CHILD

Alabama Campus

SESSION/DATE	SESSION/DATE
1 Jan 1-3	28 July 16-18
6 Feb 12-14	29 July 23-25
17 Apr 30-May 2	30 July 30-Aug 1
18 May 7-9	31 Aug 6-8
19 May 14-16	32 Aug 13-15
20 May 21-23	33 Aug 20-22
21 May 28-30	34 Aug 27-29
22 June 4-6	35 Sept 3-5
23 June 11-13	36 Sept 10-12
24 June 18-20	43 Oct 29-31
25 June 25-27	47 Nov 26-28
26 July 2-4	50 Dec 17-19
27 July 9-11	

EDUCATORS

SPACE ORIENTATION: HANDS ON (Alabama)

SESSION/DATE	SESSION/DATE
22 May 30-June 4	28 July 11-16
23 June 6-11	29 July 18-23
24 June 13-18	30 July 25-30
25 June 20-25	31 Aug 1-6
26 June 27-July 2	32 Aug 8-13
27 July 4-9	

EDUCATORS

SPACE ACADEMY (Alabama)

SESSION/DATE	SESSION/DATE
11 March 14-19	31 Aug 1-6
30 July 25-30	

EDUCATORS

SPACE ACADEMY (Florida)

SESSION/DATE	SESSION/DATE
45 Nov 10-15 '92	28 July 13-18
6 Feb 9-14	31 Aug 3-8
25 June 22-27	45 Nov 9-14

MAIL COMPLETED APPLICATION TO:

U.S. SPACE CAMP

1993 Reservations

P.O. Box 070015

Huntsville, AL 35807-7015

COMPLETE ONLY IF RESERVATION IS MADE BY PHONE

Session date: _____ Reservation No.: _____

Date reservation phoned in: _____

INCOMPLETE APPLICATIONS CANNOT BE PROCESSED.

You will receive confirmation notice and required Health Form within four weeks after receipt by the office.

PLEASE RETURN THIS APPLICATION WITH THE TUITION. SEE METHOD OF PAYMENT SECTION BELOW.

PLEASE MAKE PHOTO COPIES OF ALL DOCUMENTS BEFORE SENDING TO RESERVATIONS.

SPACE CAMP Alabama	SPACE CAMP Florida	SPACE ACADEMY Level I	SPACE ACADEMY Level II	AVIATION CHALLENGE	AVIATION CHALLENGE
Circle Grade currently attending	Circle Grade currently attending	Circle Grade	Circle Grade	Basic Circle Grade	Intermediate Circle Grade
4 5 6	4 5 6 7	7 8 9	10 11 12	9 10 11	10 11 12

Please fill out this application even if you have already made your reservation by phone.

ALL APPLICANTS - PLEASE PRINT

Name _____
Last First Middle

Parent/Guardian _____

Address _____

City _____

State _____ Zip Code _____

Sex _____ Date of Birth _____ Age _____

Name for Name Tag _____

Teammate preference _____

(If you order a video, remember to have your teammate order one also)

Home phone (AC _____) _____

Business phone (AC _____) _____

How many previous sessions have you attended? _____

FOR SCHOOL TEACHER OR PRINCIPAL ONLY

I approve of my student's participation in SPACE CAMP: Yes No

This student has my approval to attend SPACE CAMP during the school year: Yes No

Student will receive extra project credit for participation in SPACE CAMP/ACADEMY or AVIATION CHALLENGE: Yes No

High School Only:
Participation in SPACE CAMP or AVIATION CHALLENGE will enable student to receive _____ Carnegie Unit(s) toward science credits required for graduation.

Principal or Teacher:
Please send me information on SPACE CAMP science or math projects for extra credit.

Name _____

School _____

Address/Zip _____

I would like information on the SPACE CAMP FOR EDUCATORS Yes No

Signature _____

**SPACE CAMP (ALABAMA & FLORIDA)
SPACE ACADEMY (LEVEL I AND II)
AVIATION CHALLENGE (BASIC & INTERMEDIATE)**

Sessions will fill rapidly. In order to process your application faster, please choose three dates in each of the spring months and summer months, **unless you wish to register for spring only.** You may change your session date once without penalty. If you transfer from one year to another, you are subject to a \$50.00 transfer fee at the time of the transfer.

Please indicate choices below:

SPRING (Feb.-May) 1st choice _____

2nd choice _____

3rd choice _____

SUMMER (June-August) 1st choice _____

2nd choice _____

3rd choice _____

FALL (Sept.-Dec.) Indicate choice _____

In case my choices are full, please put me on a waiting list for

_____ (week of)

TRACK PREFERENCE: Level II Only

_____ 1st _____ 2nd _____ 3rd (Aeros., Eng. or Tech.)

PAYMENT

TUITION (See rates on page 17) \$ _____

Team video: \$45 (See page 22) _____

Uniform Package: \$75 _____

SGP I (Size) _____

SGP II (Size) _____

FLT (Size) _____

Amount Enclosed TOTAL \$ _____

☐ Check or money order (Sorry, No COD's)
Payable to The Space & Rocket Center

☐ VISA ☐ MasterCard ☐ American Express

Card No. _____

MO YEAR

EXPIRATION DATE

Signature Required

**FOR OFFICE USE ONLY
REGISTRATION STATUS**

Session (Date) _____

Waiting List _____
Transferred _____

1993 APPLICATION

NAME

LAST

FIRST

U.S. SPACE CAMP
1993 Reservations
P.O. Box 070015
Huntsville, AL 35807-7015

Date reservation phoned in: _____

PLEASE MAKE PHOTO COPIES OF ALL DOCUMENTS BEFORE SENDING TO RESERVATIONS.

ADULT SPACE ACADEMY	ADULT AVIATION CHALLENGE	PARENT/CHILD	EDUCATOR LEVEL I	EDUCATOR AND ACCREDITED SESSION
Circle Grade Level I Level II	Occupation _____	Circle One Alabama Florida	List Grade, Subject or Administrator _____	Circle One Alabama Florida

_____ CC MO CSH
Date received fee

FIRST

5

DAY MISSION:

AVIATION CHALLENGE

Intermediate

Grades 10 thru 12

Alabama Campus

Advanced academic and hands-on training make Intermediate AVIATION CHALLENGE a more intensive aviation orientation for the older student. You'll work and train hard from early morning to late night as you prepare for the week's final, aerial combat and Red Flag.

Fitness Training

The day begins with a "first call" to physical training. Physical agility and confidence will serve you well during land survival training, so morning calisthenics and obstacle course exercises are part of your way of life. Your adeptness in water activities is also put to the test as you simulate a parachute descent and water rescue from the 40 ft. tower. Following your descent and parachute disentanglement, you will board a life raft and move to the helicopter hoist for rescue.

Military Operations Training

Aircraft carrier operations and exercises in catapult launch and arrested landing procedures are discussed and practiced. But, of course, basics in air combat operations



are imperative to any level of mission success. Mission planning information is supplied to your squadron daily to help you plan and execute the squadron Red Flag exercise which incorporates a combat mission controlled by an Airborne Early Warning Aircraft. Red Flag is a realistic war game which draws upon previous training to execute one of several tactical scenarios. Part of each day will be spent preparing your mission—when you receive that final Air Tasking Order (ATO): FIGHT'S ON!

Navigation, Flight Maneuvers and Aerial Combat

Just like the Basic program, former military pilots conduct lectures and discussions on tactical maneuvering, navigation and military aviation careers. Reflect upon their skill and experience as you pilot the "Super Bandit," the most demanding AVIATION CHALLENGE simula-

tor which is patterned after the advanced tactical fighter currently under development for the U.S. military. Practice air to air intercepts as you prepare for the final, networked simulator event which will demonstrate your squadron teamwork and individual flight proficiency.

"After attending AVIATION CHALLENGE at the U.S. Space & Rocket Center, Grissom High School graduate Jaime Vega decided he wanted to fly Navy fighter planes. With his recent

appointment to the U.S. Naval Academy, his dream is about to take off to the skies."—excerpt from the June 7, 1992 Huntsville Times, AL

Basic and Intermediate Arrival & Graduation

Spring Session - Arrival time is Wednesday between 1-5 p.m. Family and friends attending the 11:00 a.m. graduation ceremony on Monday should report to the Habitat for transportation to Aviation Challenge. Departing flights should be scheduled after 12:30 p.m. on Monday.

Summer Session - Arrival time is Sunday between 1:00 p.m. and 5:00 p.m. Family and friends who wish to attend the 11:00 a.m. graduation ceremony on Friday, should report to the Habitat to board a bus for transportation to Aviation Challenge. Departing flights should be scheduled after 12:30 p.m. on Friday.

Tuition includes meals, educational programs and materials, accommodations and T-shirt.

Each graduating trainee receives AVIATION CHALLENGE wings, a certificate and a color group photograph. Team and individual awards are also presented.



3

PARENT & CHILD SPACE CAMP

DAY MISSION:

Alabama & Florida

For parents/guardians & children ages 7-11

A positive mental attitude and overall self-confidence are greatly enhanced by parental support and encouragement. Acknowledging this, U.S. SPACE CAMP offers a special program on selected weekends to provide parents and guardians an opportunity to take a unique and active role in promoting math/science education while boosting their child's self esteem. Recommended for parents/guardians and children ages 7-11, PARENT & CHILD SPACE CAMP also promotes learning as a life-long activity.

"This is fantastic! My daughter and I loved it and we are definitely coming back. I want to get my wife down here for this."—Andy Strogny, Stronghill, OH

Together, you will explore the history, present and future of manned space flight. Lectures by staff, presentations in the U.S. Space & Rocket Center's Spacedome Theater (Alabama program) or U.S. Astronaut Hall of Fame's Shuttle to Tomorrow (Florida program), hands-on astronaut and mission training in the U.S. SPACE CAMP Training Center, and tours of NASA facilities (Marshall Space Flight Center in Alabama and Kennedy Space Center in Florida) create a mix of learning and fun certain to make lasting memories.



Build and launch model rockets, construct large space structures and experience astronaut training simulators such as the Five Degrees of Freedom Chair, the Manned Maneuvering Unit and the 1/6th Gravity Chair. You'll become real teammates during two simulated shuttle missions. Whether side-by-side at Mission Control or executing an EVA (Extra-Vehicular Activity) as a member of the shuttle orbiter crew, parents and their children may achieve a new level of mutual respect.

Tuition includes meals, educational programs and materials, accommodations, T-shirt, and visor.

Arrival time is Friday at 11:00 a.m.
Graduation is Sunday at 10:00 a.m.
Departing flights should be scheduled after 3:00 p.m. on Sunday.

"I have no doubt that whether it is in space or here on Earth, those privileged to participate in the SPACE CAMP programs will be the leaders of our future. My son and I were greatly honored to have received Right Stuff Awards at the conclusion of our session and assure you that these medallions will serve as a constant reminder of many precious and rare memories that most parents and their children, unfortunately, are never able to experience. I compliment you on the foresight and vision shown by the creation of the SPACE CAMP program, and offer my testimonial to its great benefits to the citizens of our nation who are privileged to participate in it."—Richard H.

Dorrough, Circuit Judge,
Montgomery, AL



5

DAY MISSION:

Alabama Campus

SPACE ORIENTATION: A HANDS-ON PROGRAM FOR EDUCATORS

Mission: To assist professional educators in motivating young people toward greater achievements in math and science by providing educators exciting space science training, resources and applications.

SPACE ORIENTATION: A HANDS-ON PROGRAM FOR EDUCATORS aims to infuse classroom excitement by motivating and inspiring teachers. How? By using the same hands-on techniques used in our youth programs, but also supplementing them with classroom applications.

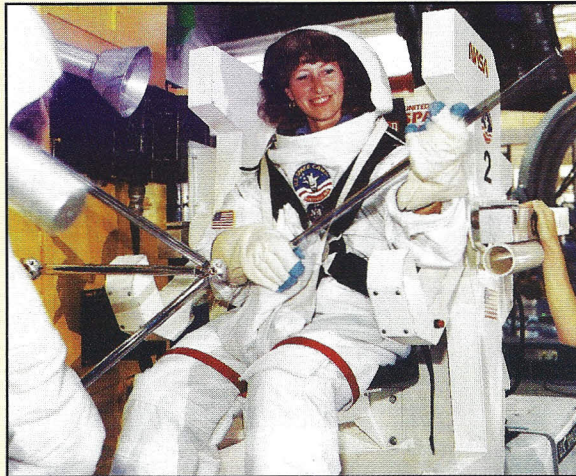
Offered exclusively by U.S. SPACE ACADEMY, this program is also supported by NASA's Marshall Space Flight Center.

A NASA tour and Discovery Lab experiences greatly enhance the intensive hands-on astronaut and missions training held at the U.S. SPACE CAMP Training Center. Guest/staff lectures provide fuel for classroom use. Astronaut speakers are scheduled to highlight program activities. Two simulated shuttle missions allow you to swap roles from ground to space. Your own special log book of hands-on, classroom applications and educational resources will accompany you home.

Teachers should apply for in-service credit through their local school systems.

Tuition includes meals, educational programs, log books and materials, accommodations, T-shirt, flight suit and hat.

Arrival time is between 12:00 p.m. and 2:00 p.m. on Sunday. Family and friends who wish to attend the 9:00 a.m. graduation ceremony on Friday should report to the U.S. Space & Rocket Center's main lobby for each ceremony's location. Departing flights should be scheduled after 11:00 a.m.



ALABAMA SPACE ORIENTATION FOR PROFESSIONAL EDUCATORS

A 5-day program offering college credit

Offered jointly by U.S. SPACE ACADEMY and the University of Alabama in Huntsville (UAH), this program enjoys the support of Marshall Space Flight Center, NASA's leading Center for propulsion development.

SPACE ORIENTATION FOR PROFESSIONAL EDUCATORS provides lectures and labs by university staff and NASA personnel to reflect current research and technological developments in space related subjects. Astronaut speakers are also scheduled to highlight program activities. Hands-on astronaut/missions training in the U.S. SPACE CAMP

Training Center instills excitement certain to be contagious in the classroom. Three semester hours of graduate credit are made available in elementary education, secondary education or science (cost of credits included in program fee).

Tuition includes meals, educational programs and materials, accommodations, T-shirt, flight suit and hat.

Arrival time is 1:00-4:00 p.m. at the Bevill Center on the University of Alabama, Huntsville campus. Family and friends who wish to attend the 1:00 p.m. Friday graduation ceremony should report to the Bevill Center at UAH. Departing flights should be scheduled after 4:00 p.m.

Florida Campus

FLORIDA PROFESSIONAL EDUCATORS COUNTDOWN TO LEARNING

A 5-day program offering college credit

Offered jointly with the University of Central Florida, this program is offered in conjunction with John F. Kennedy Space Center, NASA's leading launch complex. The curriculum for this program is similar to that of SPACE ORIENTATION FOR PROFESSIONAL EDUCATORS, Alabama Campus.

Tuition includes meals, educational programs and materials, accommodations, T-shirt, flight suit and hat.

Arrival time is Tuesday at 5:00 p.m. Family and friends who wish to attend the 3:00 p.m. graduation on Sunday should report to the SPACE CAMP lobby for the ceremony's location. Departing flights should be scheduled after 5:00 p.m. on Sunday.



3^{TO}8

ADULT ADVENTURES

DAY MISSIONS:

SPACE ACADEMY

Level I

Alabama Campus

A 3-day weekend program for adults age 19 and older

Learning is a lifelong process—and dreams of life in space or in the cockpit of a fighter plane do not cease at age 18. So grab your imaginations and take off for Huntsville, Alabama, for an exciting and satisfying getaway.



"Experiencing the space program 'up close and personal' made me appreciate how far we've come in 30 years...Your program plus my years of following the space effort made for a most interesting (and outright fun) experience...It seems like only yesterday I was scooting across the floor in the SDF or spinning and bouncing like a bucking bronco on the Multi-Axis Trainer...man, it was great!"—Tim Colliver, Goshen, OH

Adult Level I takes you through the rigors of astronaut and mission training while providing an abbreviated lecture schedule. Receive your mission assignments shortly after arrival and begin preparation for your shuttle and space station missions. Experience the 5 Degrees of Freedom (SDF) Chair, the Manned Maneuvering Unit (MMU) and the 1/6th Gravity Chair. Take a tumble in the Multi-Axis simulator and take on the "G's" of the Centrifuge in an unsurpassed, educational role playing scenario. Space shuttle and space station missions promise to keep your energy and excitement levels high as you and your teammates give your dreams a taste of reality.

Tours of NASA's Marshall Space Flight Center and the U.S. Space and Rocket Center round out your weekend excursion.

Tuition includes meals, educational programs and materials, accommodations, and hat.

Arrival time is 8 a.m. on Friday. Family and friends who wish to attend the 3:00 p.m. graduation ceremony on Sunday should report to the U.S. Space & Rocket Center's main lobby for each ceremony's location. Departing flights should be scheduled after 7 p.m.



SPACE ACADEMY

Level II

An 8-day program for adults age 19 and older

This intensive session is recommended for adults who have graduated from a Level I program and who are seeking an even greater challenge.

More than 90 hours of instruction gives the ADULT ACADEMY Level II program more training opportunities, more fun and more excitement. Patterned after NASA crew training manuals, this program takes education and role playing a step further by placing you in one of three tracks of study: Technology Track, Engineering Track or Aerospace Track. Depending upon track of study, you may execute simulated



EVA's (Extra Vehicular Activities) in the UAT (Underwater Astronaut Trainer), or conduct thought-provoking experiments aboard space station. Take the ride of your life in a high fidelity jet flight simulator as all tracks go out to the AVIATION CHALLENGE compound.

Three, two-hour missions allow tracks to switch roles from space station to orbiter to mission control. At the end of the week, trainees come together for an **Extended Duration Mission (EDM)**. During the 12-hour (or 24-hour) exercise, trainees work together to conquer numerous anomalies. A traditional NASA "steak and egg" pre-mission breakfast and a crew mission cake during debriefing complement an exciting day. (Ask your SPACE ACADEMY reservationist about sessions featuring a 24-hour mission.)

Tuition includes meals, educational programs and materials, accommodations and T-shirt.

Arrival time is between 1:00 p.m. and 5:00 p.m. Family and friends who wish to attend the 1:00 p.m. graduation ceremony on Saturday should report to the U.S. Space & Rocket Center's main lobby for each ceremony's location. Departing flights should be scheduled after 3:30 p.m.

PLEASE NOTE: Tracks are assigned on a first come basis. Each applicant will receive approval forms for SCUBA instruction to be signed by a physician and parent/guardian. Completed SCUBA forms (for Engineering and Technology trainees) must be returned to SPACE ACADEMY at least six weeks prior to session date and no earlier than three months prior to session date. Physical requirements are noted on form. Trainees with any history of asthma or ear problems will not be permitted to SCUBA dive.

AVIATION CHALLENGE

A 3-day weekend program for adults age 19 and older

If you have ever longed to put the "wild" in "blue yonder" AVIATION CHALLENGE is the answer to your desire.



"I have now attended Adult SPACE CAMP and AVIATION CHALLENGE... and to say that I was thrilled, excited, and exhilarated would be an understatement! I feel I can apply a reliable yardstick in evaluating your programs and counselors and I feel strongly about your programs being a great contribution to education."—Grant A. Killian, Ph.D., ABMP, P.A., Lighthouse Point, FL

Tuition includes meals, educational programs and materials, flight suit, accommodations and T-shirt.

Arrival time is 10:00 a.m. on Friday. Family and

friends who wish to attend the 3:00 p.m. graduation ceremony on Sunday should report to the U.S. Space & Rocket Center's main lobby for each ceremony's location. Departing flights should be scheduled after 4:30 p.m.

As weekend jet jockeys, you and your teammates undergo training developed from actual military pilot training procedures. Nerves of steel will serve you well as you take the driver's seat for spine-tingling, fighter-pilot simulations featuring air-to-air intercepts. Increase and sharpen your stamina and reflexes as you take on water and land survival scenarios. Test your physical and emotional mettle with



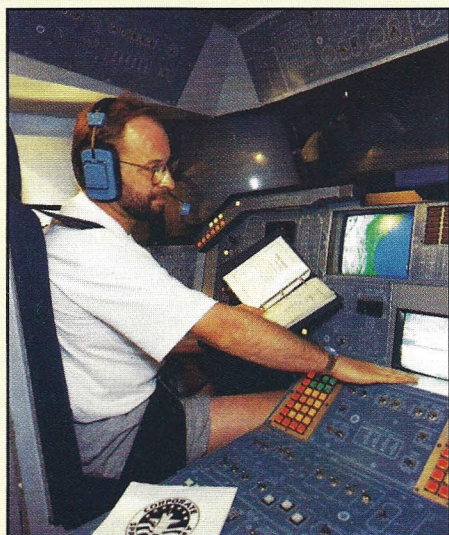
CORPORATE SPACE ACADEMY

3^{to}8

DAY MISSIONS:

Alabama Campus

CORPORATE SPACE ACADEMY is an exciting new addition to the portfolio of U.S. SPACE CAMP programs and offers a unique opportunity for corporations to better define and build a lasting, productive work environment. The excitement and success of the U.S. space program and the U.S. SPACE CAMP/ACADEMY training programs are combined with the proven accomplishments of the Competitive Edge, Inc., an Atlanta-based multi-faceted human resources consulting company. The program consists of the perfect mix of interactive team activities, realistic astronaut training, simulated space shuttle missions, and customized classroom sessions geared to stimulate clarity of mission and establish a clear understanding of team effectiveness.



While attending CORPORATE SPACE ACADEMY, participants are given the opportunity to explore the finest collection of rocketry in the world including the only full-scale Space Shuttle exhibit in North America. Big-screen Omnimax film presentations that were filmed in space by astronauts are shown in our Spacedome theater to add to the participants' experience. One of the highlights of the weekend is the opportunity to have each participants' questions about space travel answered first hand as they have dinner with a visiting guest astronaut.



CORPORATE SPACE ACADEMY's program emphasizes first-class service. Tuition is \$1,350 per participant and includes lodging at the nearby Huntsville Marriott, and all meals during the program. Each participant is also provided with all the necessary materials for training including a flight suit, space shuttle model, a special T-shirt and all training/reference manuals. Upon completion of the program, each participant will receive a personalized team video that will enable them to share their enthusiasm and excitement with co-workers, friends and family back home.

CORPORATE SPACE ACADEMY is designed to be a customized experiential program that promotes executive growth, financial gain, cooperation and accountability in corporate America. Teams consist of employees from the same company, with a maximum of 16 people on each team. A limit of three teams per weekend session has been established. Sessions normally operate from Thursday evening to Sunday early afternoon.



Call 1-800-63 SPACE for complete details including program customization and available dates.

Group Discount Tuitions

With attendance from all 50 states and over 30 foreign countries, U.S. SPACE CAMP, ACADEMY and AVIATION CHALLENGE provide trainees with a tremendous forum for cultural exchange and social development. Not only can these experiences impact the individual student, but also student groups who seek motivational education opportunities.

Ranging from school groups, to 4-H clubs, to scout troops and others, group attendance at either the Alabama or Florida training facilities can be the catalyst that sparks student imagination and achievement. Groups may be organized to attend selective U.S. SPACE CAMP/ACADEMY programs during most of our fall, winter and spring sessions and qualify for special group discounts, in addition to our seasonal discounts that are highlighted on the adjacent page.

It is our aim to provide group experience opportunities at your convenience; consequently, scheduling around school break periods (typical school year or year round school year) is anticipated and welcome. With acceptance of the programs as "academically sound" by numerous schools, your group may also

elect to register during the academic school year. Check with your school's administrative office to ascertain the best times for your group to attend.

Call 1-800-63 SPACE and ask for SPACE CAMP Group reservations.

SESSION CALENDAR

This fifteen-month calendar highlights the year round schedule and corresponding seasonal pricing for most SPACE CAMP programs. Peak season pricing is indicated by the yellow lines, and seasonal discounts are indicated by the colors noted at right.

Spring Break is a great time to attend a SPACE CAMP program, and you could save \$125 off regular peak season tuitions for SPACE CAMP, SPACE ACADEMY Level I and AVIATION CHALLENGE.* Spring Break varies around the country from January through April, so check your

school system's schedule...and if you attend a year round school, a session in the fall, winter or spring might be best for you or your school group.

The educational importance of SPACE CAMP programs is endorsed by school systems all over the United States which allow their students to attend sessions during the school year. Some students obtain excused absences and complete science or math projects for extra class credit. Added for Spring of 1993, SPACE CAMP, ACADEMY I and AVIATION

CHALLENGE are offering Blue Week sessions (indicated by a blue line on the calendar below) allowing students to attend from Wednesday through the following Monday, thus not missing a full week of school classes. See insert pages for specific dates and tuition rates.

- Fall & Winter Sessions
- Spring Red Week Sessions
- Spring Blue Week Sessions
- ■ ■ Aviation Challenge Only
- Summer & Easter Sessions

OCTOBER '92

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JANUARY '93

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(April 4-23 tuition at peak season rates)

JULY '93

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MARCH '93

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JUNE '93

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DECEMBER '93

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*For SPACE ACADEMY Level II, Adult, Educator, and Parent & Child programs, see insert pages for specific dates.

GRADUATION



Alabama Campus

Family members are invited to attend Huntsville graduation ceremonies. Plan to arrive early for graduation. After ceremonies are concluded, enjoy a leisurely tour of the U.S. Space & Rocket Center attractions.

You'll receive two free tickets for the Space Center, Spacedome Theater and NASA Bus Tour.

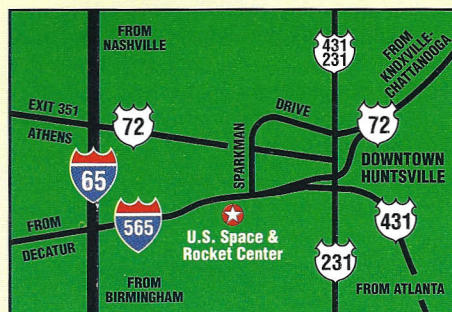


U.S. Space & Rocket Center

The U.S. Space & Rocket Center—Alabama's largest tourist attraction—is also the nation's premiere showcase of space technology. The Space Center established U.S. SPACE CAMP in 1982, thereby extending the concept of its hands-on exhibits by creating stimulating space adventures for youth and adults.

The Space & Rocket Center features America's only full-scale Space Shuttle Exhibit, the actual Apollo 16 command module, the high fidelity model of Skylab and dozens of rockets that trace the evolution of our space program.

Spacedome Theater boasts a 67-foot domed screen and a state-of-the-art sound system. Stunning cinematography and thundering audio re-create the sights and sounds of space as captured by U.S. shuttle astronauts.



And, as NASA's official visitor center, the U.S. Space & Rocket Center provides the only public access to NASA's Marshall Space Flight Center. Narrated bus tours take Center guests past historical propulsion test stands and to a variety of key stops which characterize work being accomplished at Marshall Space Flight Center. From the Redstone Rocket to America's Space Station Freedom, tour goers receive fresh insight to space program goals.

Getting to the U.S. Space & Rocket Center is easy—no matter how you choose to travel (see map above and transportation information on page 24). Staying overnight is equally simple.

The Huntsville Marriott is conveniently located on the grounds of the U.S. Space & Rocket Center. Call 205-830-2222 and ask about special SPACE CAMP family rates for Friday, Saturday and Sunday (other specials available weeknights, too). The Marriott's comfortable guest rooms overlook the Space Center, and the hotel features an indoor-outdoor swimming pool, family dining at Season's restaurant and other amenities.

HUNTSVILLE
Marriott



Delta, the official airline of U.S. SPACE CAMP, offers special rates for the entire family for flights to U.S. SPACE CAMP in Huntsville (and to Orlando for SPACE CAMP Florida). Call Delta toll-free at 1-800-241-6760 (8 am to 8 pm Eastern Time) for reservations.



The Official Airline Of U.S. Space Camp

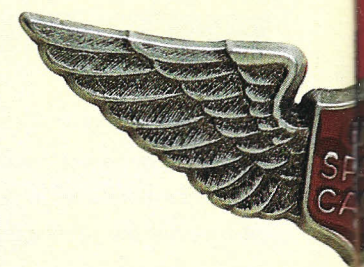


Drive a bargain when visiting U.S. SPACE CAMP—Budget is the official rental car company of U.S. SPACE CAMP.

For a special discount rate, call Budget's Special Services Desk, toll-free, at 1-800-772-3773.

Budget
car and
truck rental

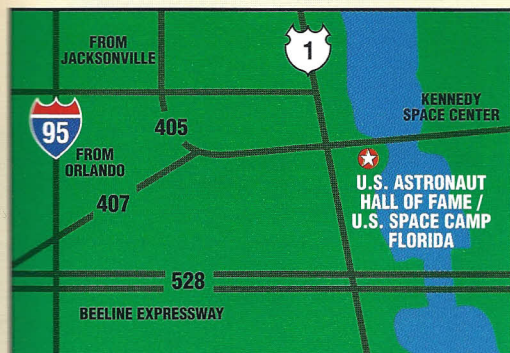
Huntsville Area Attractions: Huntsville's Twickenham Historic District, Alabama's largest antebellum district, is located just seven miles from the Space Center. The city's attractions include Constitution Hall Village, the 1819 Weeden House, the historic Huntsville Depot and the Huntsville Museum of Art. For more information on these and other attractions, call the Huntsville/Madison County Convention & Visitors Bureau at 1-800-SPACE 4 U or call the Alabama Bureau of Tourism and Travel at 1-800-ALABAMA.



Florida Campus

FLORIDA: U.S. ASTRONAUT HALL OF FAME

Family members are invited to participate in Florida graduation activities at the conclusion of each session. Plan to arrive early for graduation and then enjoy a leisurely tour of the Astronaut Hall of Fame available to SPACE CAMP families at no charge.



The U.S. Astronaut Hall of Fame, located at the entrance to the NASA Kennedy Space Center, tells the human story of America's manned space flight program. With the astronauts' own words, live the history of their heroic flights. Then, share a new adventure aboard the Shuttle to Tomorrow

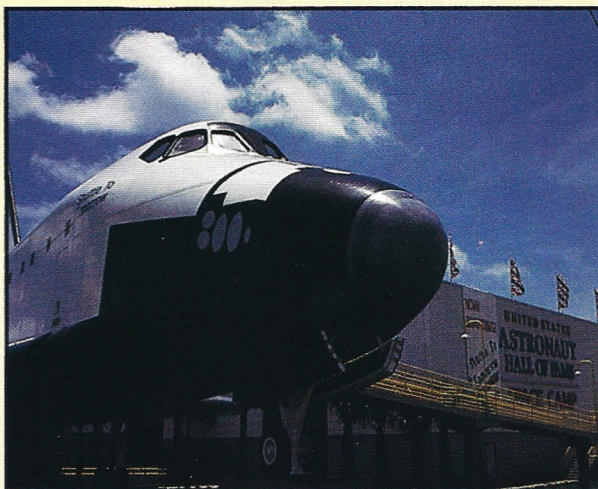


exhibit which features a multi-sensory video inside the cargo bay of a full size space shuttle orbiter replica.

Getting to SPACE CAMP Florida is easy (see maps left and below and transportation information on page 24).

Spaceport USA, the visitor's center at Kennedy Space Center, is your gateway to NASA's launch complex 39 where the space shuttle is prepared and launched. Guided bus tours take you near the massive Vehicle Assembly Building, an authentic Saturn V moon rocket, and the shuttle launch pads. While at Spaceport, don't miss the "Dream Is Alive" and "Blue Planet" IMAX movies. Spaceport USA opens daily at 9:00 a.m.



FLORIDA'S SPACE COAST

Florida's Space Coast offers a variety of accommodations and entertainment options. For a complete Space Coast vacation planner, call 1-800-USA-1969.

Delta, the official airline for U.S. SPACE CAMP, offers special rates for the entire family for flights to U.S. SPACE CAMP arriving in Orlando. Call Delta toll-free at 1-800-241-6760, 8:00 a.m. to 8:00 p.m. for reservations.

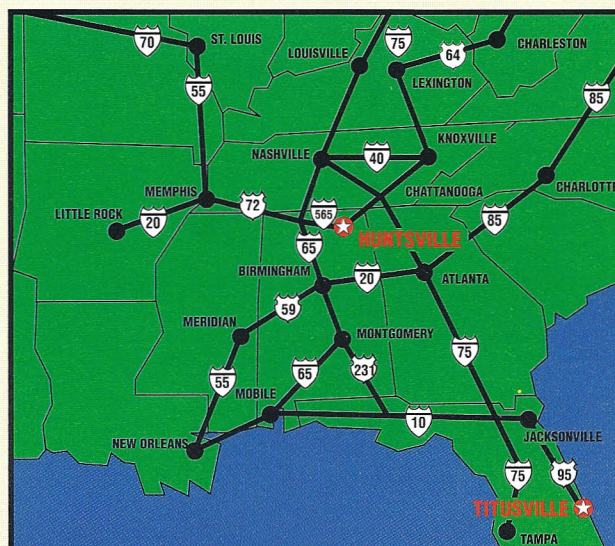
Budget Rent-A-Car is the official rent-a-car for U.S. SPACE CAMP. Drive a bargain when visiting U.S. SPACE CAMP Florida.

Budget offers special rates to families travelling to U.S. SPACE CAMP Florida. In addition, Budget offers a free upgrade coupon (based on availability) which will be mailed to you prior to your camp session date. For rates and reservations, call Budget's Special Services Desk, toll-free, at 1-800-772-3773 and ask for rate code VARC-PACE. Rates are valid in Orlando, Melbourne, Cocoa Beach, Titusville and Daytona.



SPACE CAMP families are entitled to the benefits of Universal Studios Florida Fan Club. Universal Studios Florida is Orlando's premier attraction. You will experience over 40 rides, shows and movie street sets. Some of the exciting fan club discounts are a savings of 10% on admission to Universal Studios Florida and all merchandise, as well as savings at resorts, hotels, campgrounds, specialty stores and much more. Fan Club membership cards are available during SPACE CAMP registration.

Central Florida is the number one vacation destination in the world. Information on special SPACE CAMP family discounts to a variety of attractions and hotels in the Central Florida area will be sent prior to your camp session.





CONTINUING THE ADVENTURE

Team Videotape

A videotape of your adventure at SPACE CAMP, SPACE ACADEMY Level I and AVIATION CHALLENGE is available



ONLY IF YOU ORDER AT LEAST TWO WEEKS IN ADVANCE OF YOUR SESSION. The cost of \$45 includes shipping and handling. If you are attending with a friend and you both wish to appear in the same video, you should both express teammate preference and order videos in each of your telephone reservations and/or applications. Videos (approximately 40 minutes in length) will be received about 6 weeks after graduation. Tapes include most of the week's activities and feature you and your teammates for about three minutes each. Videotapes are **not** available for SPACE ACADEMY II, Adult, Educator, or Parent & Child programs. If we are unable to accommodate your video order, you will receive a refund.



Flight Suits

Official flight suits are available for \$75 and may be either prepaid with your registration or purchased after arrival. These flight suits are similar to those worn by NASA astronauts. All flight suits include a personalized name tag. Please make appropriate note on the Registration Form should you wish to prepay; then add \$75 to the total figure for your check or credit card payment. Be sure to state size when ordering.



Uniforms

Additional Space Gear uniform options available for SPACE CAMP, SPACE ACADEMY and AVIATION CHALLENGE for \$75.00:

Space Gear Package I - 2 T-shirts, 2 shorts and 1 windbreaker

Space Gear Package II - 1 sweatshirt, 1 pair sweatpants, 1 T-shirt, 1 pair shorts and 1 windbreaker

Gift Shops

Located on-site in Alabama and Florida, gift shops feature official SPACE GEAR clothing, NASA mission insignias, books, postcards, spacecraft models and more.



Scholarships

Scholarships funded by corporations and individuals are matched by the U.S. Space & Rocket Center to make programs available to as many youngsters as possible.

Applicants choose the categories in which they wish to compete: Scholastic Achievement, Ethnic Background and Financial Need.

The competition is based on short essays submitted by students. To receive topics and entry information, write (do not phone) Scholarship Office, U.S. SPACE CAMP, P.O. Box 070015, Huntsville, AL, 35807. (Note: Those seeking a scholarship to the Florida program will apply to the Alabama office.)

Because sessions fill quickly, you might wish to consider registering while pursuing a scholarship. Should you receive a scholarship, your tuition will be refunded. (A number of youngsters who waited last year to learn if they received a scholarship before attempting to enroll were unable to attend because sessions were filled). **You do not have to preregister in order to apply for a scholarship.**

Scout Merit Badges

Scout Merit Badges can be earned at SPACE CAMP and AVIATION CHALLENGE (Aerospace or Space Exploration Merit Badges). Boy Scouts and Girl Scouts must bring the appropriate forms for completion by CAMP/ACADEMY or AVIATION CHALLENGE staff.

4-H

Youths may now attend U.S. SPACE CAMP as a 4-H activity. 4-H Missions in Space is a high tech experience designed to supplement existing county and state sci/tech projects such as aerospace and rocketry. Both weeklong and weekend programs are available as part of the Missions in Space curriculum. A national evaluation team of 4-H leaders has agreed that this experience is appropriate as part of the National 4-H Science and Technology Program. For more information, ask your 4-H leader to submit an inquiry to your state 4-H office.

1993 Planned Additions

Gemini Expansion - (Florida Campus)

In 1993, the U.S. Astronaut Hall of Fame/SPACE CAMP Florida will induct 13 Project Gemini astronauts. This group of men will join America's original 7 space heroes to tell personal stories of their pioneer missions in space through personal memorabilia and historical artifacts.

Other plans to the Astronaut Hall of Fame/SPACE CAMP, Florida for 1993 include an interactive exhibit area and a new large screen video presentation in surround sound format in the Hall theater.

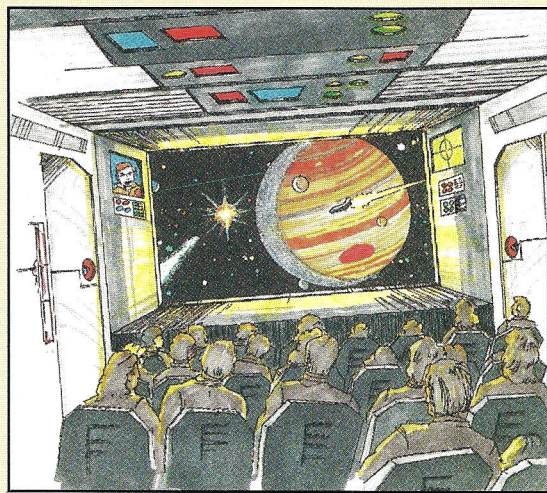
Observatory - (Alabama Campus)

Located in the Habitat complex, the Observatory is planned for late 1993 to better address the academic needs of all trainees. The facility will be used day and night to study the constellations, with and without the use of telescopes.

Flight to Deep Space Simulator -

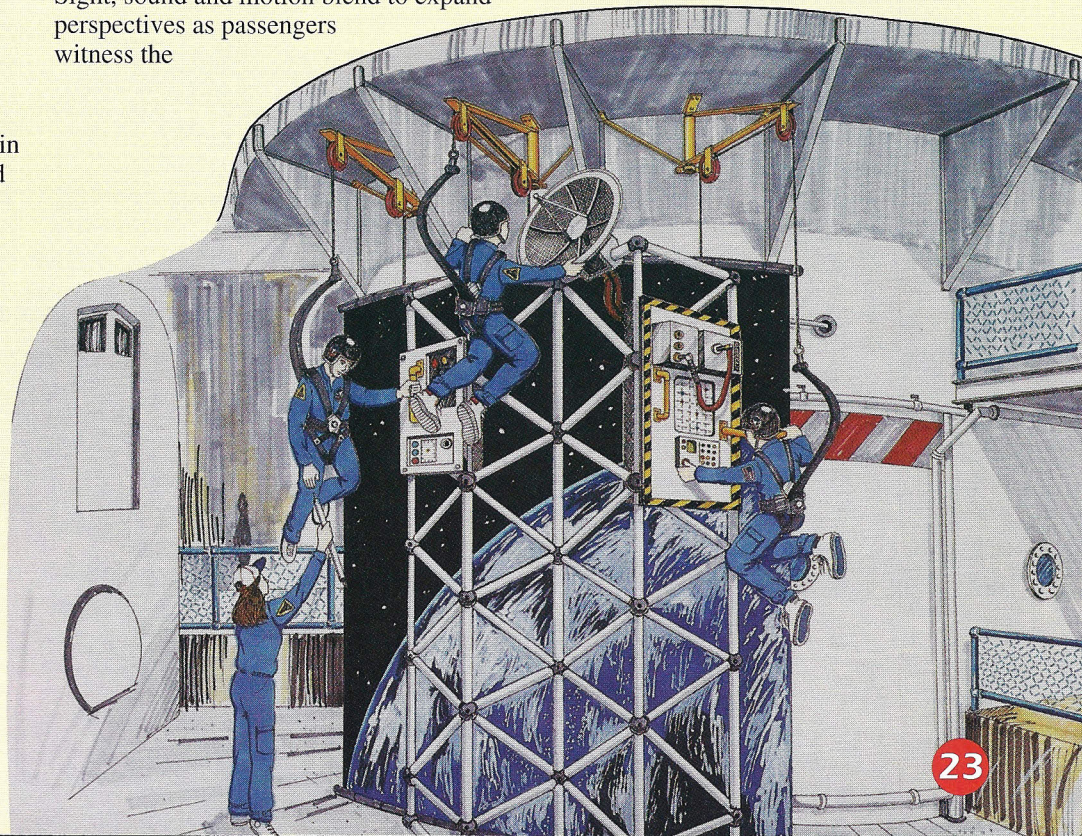
(Alabama Campus) This 30 passenger motion based simulator will be used by U.S. Space & Rocket Center visitors and U.S. SPACE CAMP and ACADEMY trainees. Passengers will project themselves into the future as they board the public shuttle to Jupiter and settle back for the action and information packed ride. Sight, sound and motion blend to expand perspectives as passengers witness the

commercialization of space and contemplate the changing dynamics of the world society. Fly-by's of space station and achievements in space colonization fuel a passion for discovery just as silks and spices spurred Columbus to discover the New World.



Zero "G" Wall - (Alabama & Florida)

This addition in the U.S. SPACE CAMP/ACADEMY Training Center will greatly enhance ACADEMY II missions training, as well as impact Level I ACADEMY and SPACE CAMP exercises. The Zero "G" Wall will accommodate a variety of EVA's (Extra Vehicular Activities). From building space structures, to satellite rescue operations, this "task board in the sky" will challenge mission and space station specialists as they traverse the wall using a series of hand and foot restraints to execute assignments.



DATA

Transportation

Airline Reservations

Delta is the official airline of U.S. SPACE CAMP, with daily service from 175 cities to Huntsville, Alabama and Orlando, Florida. For the lowest available discount fares, call Delta reservations toll-free at 1-800-241-6760 from 8 a.m. to 8 p.m. Eastern Time. Be sure to ask for the file "SPACE CAMP." Group rates are also available.



1-800-241-6760

Last year, over 12,000 children flew to SPACE CAMP from all around the world. At Delta, they take great pride in their ability to care for your child. From the moment you arrive at the Delta Ticket Counter, an agent will be there to meet and assist your child. Your child will receive a special identification button to indicate his or her Unaccompanied Minor status. Delta will provide an escort to connecting flights, if necessary, as it is their policy never to leave a child alone. Delta is the official airline for kids. You can trust Delta.

Transportation Details

With your confirmation notice, you will receive a very important TRANSPORTATION FORM. Please return this form no later than 4 weeks prior to your scheduled arrival to ensure assistance and airport transfers. Verification of transportation will be sent prior to arrival and a staff member will meet your plane or bus. **NOTE:** For SPACE CAMP Florida attendees (CAMP, Parent/Child and Educator programs) who arrive by air there is a \$25

airport transfer fee, payable upon registration. Bus transportation must be into Titusville, FL for SPACE CAMP—Do not use Orlando bus station.

If the form is not received two weeks prior to arrival, we will assume you are arriving by car and do not require personnel to meet your plane or bus. *Please inform us of any changes in your transportation plans.*

If you have a transportation problem en route or upon arrival, call the SPACE CAMP office at:

205-721-7185 (Alabama) or
407-267-3184 (Florida)

Directions will be sent upon request for those driving to SPACE CAMP.

Health Care

In Alabama, nurses are on duty 24 hours a day; in Florida, nurses are on duty during program hours and are on call during non-program hours. *A health information form will be included in your confirmation package which must be completed and returned prior to arrival. Make an extra copy for your child to bring.*

Some of the space flight simulators used in the programs may cause motion sickness. Some training devices have height and weight restrictions: minimum height is 4'4", maximum weight is 260 lbs. Participation in simulator activities is not a requisite for graduation. For safety or maintenance reasons, specific simulators used by the trainees may vary. Call (205) 721-7162 for any health related questions, including special needs or requests.

Safety

At U.S. SPACE CAMP, the safety of all trainees is of prime concern. When arriving by air, trainees are greeted at the airport by SPACE CAMP personnel and transferred by bus or van to the Training Center. Airline tickets are collected and return flights are reconfirmed by SPACE CAMP staff members. Upon check-in at the Habitat, all students must call home to let parents/guardians know they have arrived safely. The Habitat complex has 24-hour security throughout the year.

Counselors are highly trained and certified in the proper use of all simulators so that trainees may have a safe and enjoyable experience. Each simulator is built to the highest of standards. All equipment is safety checked and maintained by professional technicians and each enclosed simulator is equipped with smoke detectors and closed circuit television. It is also a requirement that trainees wear safety helmets when using most of the astronaut training equipment.

Housing & Meals

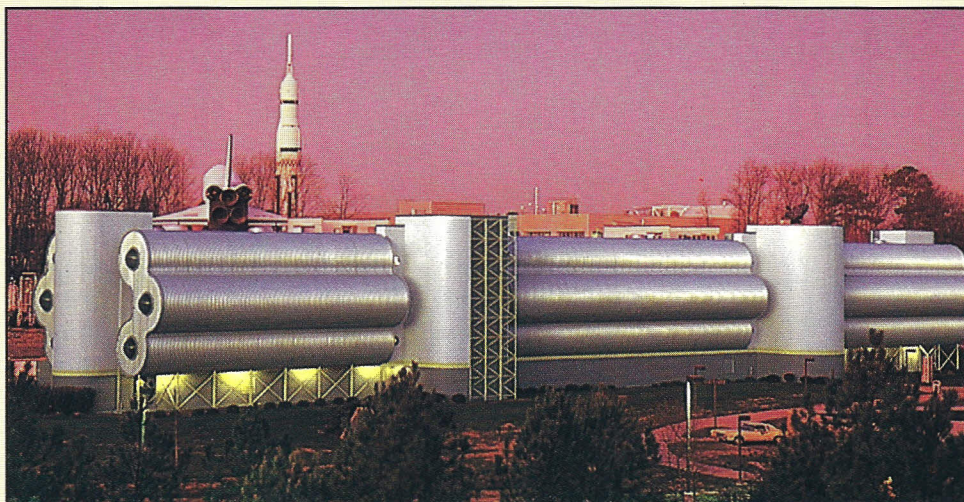
Alabama Programs

Housing - Bed sheets and blanket, pillow and pillow case, towels and washcloths are provided. All student housing has a 24-hour supervisory staff and security staff.

U.S. SPACE CAMP - Trainees are usually housed in Habitat II of the Space Habitat Complex. Hab II features open bay dormitories.

U.S. SPACE ACADEMY I & II - Trainees are usually housed in Habitat I of the Space Habitat Complex. Hab I

features coed floors and male/female wings. Trainees are bunked six per room. ACADEMY I trainees may occasionally be housed in Hab II to accommodate male/female housing requirements.



AVIATION CHALLENGE Basic & Intermediate - Trainees are housed on site in squadron bays.

Alabama Space Orientation for Professional Educators - Housing is provided at the University of Alabama in Huntsville at the Bevill Center.

Space Orientation: A Hands-On Program for Educators - Housing is provided at a nearby motel.

ADULT ACADEMY - Trainees are housed in Habitat I.

ADULT AVIATION CHALLENGE - Trainees are housed on site in squadron bays.

Parent & Child - Parents and children stay together in Habitat I.

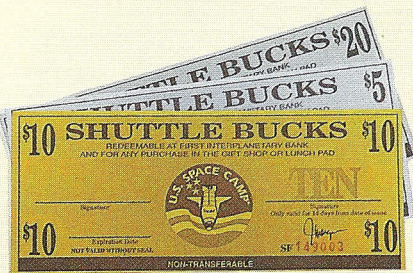
Meals - Meals are provided at the Training Center cafeteria from afternoon arrival through graduation. Snacks, soft drinks and other items are available at various sites at trainee expense.



Money Transfer

Cash advances are available for trainees needing emergency funds. A parent/guardian may provide cash via credit card. (Alabama, phone 205-721-7185; Florida, phone 407-267-3184.)

Travelers checks or Shuttle Bucks (see below) are strongly recommended. SPACE CAMP offers a deposit service (Alabama only), but assumes no liability for cash or items not in our possession.



Trainees may purchase Shuttle Bucks (good for SPACE CAMP merchandise). If Shuttle Bucks are lost or stolen, they are reimbursable after 3 weeks.

Early/Late Arrival

Counselor supervision, meals and lodging are available at a rate of \$60 per day if airline or bus schedules require early arrival or late departure (not available to adults). Please, arrivals should be no earlier than 2:00 p.m. the day prior to your session and departures no later than 2:00 p.m. the day after your session.

Florida Programs

Housing - Bed sheets and blanket, pillow and pillow case, towels and washcloths are provided. All student housing has a 24-hour supervisory staff and security staff.

U.S. SPACE CAMP - Trainees are housed on-site in open bay dormitory units.

Florida Professional Educators Countdown to Learning - Housing is at a nearby motel.

Parent & Child - Housing is on-site. Parents and children of different sexes will be housed in different dormitories.

Meals - Meals are served at the on-site cafeteria located adjacent to the Training Center and dormitories. Snacks, soft drinks and other items are available at various sites at trainee expense.



Communications

Telephone calls

Phone calls cannot be received by trainees on a routine basis. Trainees may use pay phones in the facility for outgoing calls. In case of emergency, call 205-837-3400 or 205-721-7185 to reach Alabama trainees and call 407-267-3184 to reach Florida trainees, day or night.

Mail

Mail can be received at the following addresses:

In Alabama:

Name
Date Registered
U.S. SPACE CAMP or U.S. SPACE
ACADEMY
P.O. Box 070015
Huntsville, AL 35807-7015

In Florida:

Name
Date Registered
U.S. SPACE CAMP
6225 Vectorspace Blvd.
Titusville, FL 32780

Please allow 4 to 5 days for delivery beyond 100 miles.



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Photography by Charlie Seifried, Bob Gathany, Richard Nowitz and Arnie Katz.

Alabama Space Science Exhibit Commission

U.S. Space & Rocket Center

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