

ALABAMA/FLORIDA

SPACE CAMP It's about a million light years from anything you've ever done

U.S. Space & Rocket Center One Tranquility Base, Huntsville, AL 35805

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.

The effectiveness of SPACE CAMP teaching methodologies is revealed by a recent survey of 9,950 CAMP and ACADEMY alumni who attended during the 1987-1992 time frame:

91% enrolled in more math, specifically algebra and calculus.

■ 74% of trainees polled indicated they learned about career options; 45% 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.

93% took more science courses, primarily in physics and chemistry.

With such results, it isn't surprising that many states recognize the educational integrity of SPACE CAMP, ACADEMY and AVIATION CHALLENGE. 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 handson."— Sue Ellen Cain, 1992 Georgia State Teacher of the Year



SPACE CAMP is an outstanding opportunity...an experience that gives young people an excellent idea of what it's like to be a part of NASA and

what astronaut training is all about. The experience that SPACE CAMP gives is about as close as you can come to flying in the space shuttle without actually being in the astronaut program.— Dr. Sally K. Ride, Professor of Physics, University of California and former astronaut.

SPACE CAMP°: Alabama

Alabama Campus 6 DAY MISSION

Grades 4 thru 6

(*Note - Students must be <u>attending</u> classes in 4th grade and must be at least 9 years old by the session date. Also, students in the summer between 6th & 7th grades will attend <u>CAMP</u> if they have not been to SPACE CAMP previously.)

Leadership and teamwork take on new importance as you prepare for the ultimate test — a simulated space shuttle mission which places you in the orbiter's crew compartment or at mission control.

The Basics

The basics come first, so learn the history and principles of propulsion and guidance. Your 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

Go ahead, grab your swimsuit and take the plunge to experience astronaut water survival training. Even seemingly ordinary functions, like eating lunch, take on new interest as you sample "space food" similar to the meals prepared for astronauts during orbital and lunar missions.

Back on the Training Center floor, control a simulated MMU (Manned Maneuvering Unit), which allows shuttle astronauts to perform work untethered in and around the orbiter's cargo bay. Strapped in the 5 Degrees of Freedom (5DF) simulator, you'll gain a new understanding of the difficulty in conducting EVAs (Extra-Vehicular Activities) in space. You'll go head over heels in the Multi-Axis Trainer, a simulator patterned after earlier astronaut trainers. Other simulation exercises include the 1/6th Gravity Chair, Centrifuge and Space Walker.

"The Dream is Alive," shown in the U.S. Space & Rocket Center's Spacedome Theater, makes you feel like you're in



space and part of the NASA team. Armed with this insight, your team of twelve trainees is divided into shuttle crew and mission control. 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.

Space Technology and the Future

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

=U.S. Space Camp Launch 利

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.

The *Journey to Jupiter* deep space flight adventure will catapult you into a futuristic mindset as it blends sight, sound and motion into "reality."

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

Registration will be Sunday afternoon with a Friday morning graduation. Specific times will be provided in your registration confirmation packet.

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

SPACE CAMP°: Florida

Florida Campus 6 DAY MISSION

Grades 4 thru 7

3-2-1 LIFTOFF on the adventure of a lifetime at U. S. SPACE CAMP, Florida. Located at the entrance to NASA's Kennedy Space Center.

Conduct a test countdown with the launch of your very own model rocket.
Imagine what it would be like for a Mercury astronaut to tumble through space in his capsule as you are strapped into the Multi Axis Trainer.

• Train as a Gemini astronaut for a space walk as you ride on a cushion of air aboard the Five Degrees of Freedom simulator.

• Take your own giant leap on the moon in the 1/6th Gravity Chair.

• Hang suspended on the Zero "G" Wall where you and your teammates practice building techniques used by the Space Shuttle astronauts.

• Keep fit as you walk the walls in our Space Station Mobility Trainer, designed for use during long stays on the space station. And this is only the beginning of your SPACE CAMP adventure!

The Mission

Mission Discovery and Mission Endeavour highlight the week: the culmination of days of intense preparation. Teamwork and training are put to the test as you enter one of our full-scale shuttle simulators. The orbiter crew keeps close contact with mission control from launch to landing. By participation in two missions, you will be able to experience the challenges of both flight crew and mission control.

America's Spaceport

With Space Shuttle Launch Complex 39 at our back door, Florida's SPACE CAMPERS have a unique opportunity to see firsthand where the world's premiere space transportation system is processed, assembled and launched. From an actual Mercury Redstone rocket that could have carried Alan Shepard into space to a Saturn V moon rocket, and everything in between, the exhibits at NASA's Spaceport USA are an exciting way to learn about the history of manned space flight. The five and one half story screen in the IMAX theater give campers a window into space flight. Astronauts say viewing IMAX footage is the next best thing to actually being in space.

Space Technology

While in the confines of Earth's gravity, astronauts and space campers alike have found that neutral buoyancy training in a pool is the best substitute for zero gravity. Pool activities are scheduled seasonally and weather permitting.

Secrets of the universe unfold at Florida's largest planetarium located at Brevard Community College. Campers will learn to navigate like the astronauts, using a state of the art star projector.

You'll take part in high tech discussions and demonstrations of the latest in space shuttle technology, the thermal protective system and strange science phenomena.

And if all that weren't enough, the 1996 season introduces a full-size space station training module, remote controlled Mars rover, hydroponics laboratory and global weather tracking system.

The Experience

At SPACE CAMP we focus on teamwork as a means to teach and develop problem-solving skills. The cornerstone of SPACE CAMP is that students learn best and retain the most when they are active participants in the educational process. We have the unique ability to capture the interest of the campers through hands-on learning in a fast-paced setting. Using the excitement of the space program, history is brought to life by Mercury, Gemini, Apollo and Space Shuttle era training equipment. Through the use of simulation, the student's imagination is sparked and they actually get to try on their dreams! U. S. SPACE CAMP starts campers on a countdown to their OWN destiny.

Registration will be Sunday afternoon with a Friday morning graduation. Specific times will be provided in your registration packet.

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



SPACE ACADEMY°: Level I

Alabama Campus 6 DAY MISSION

Grades 6 thru 8

(*Note: ACADEMY I is open to 6th graders who have previously attended SPACE CAMP and are at least 11 years old at the time of camp. Otherwise the trainee must be in or completed the 7th grade and be 12 years old at the time of camp.)

U.S. SPACE ACADEMY Level I gives trainees specialized learning opportunities not available in SPACE CAMP. You'll have extra emphasis on space shuttle operations and mission training.

The Basics

A historical overview of manned spaceflight, complemented 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 review of shuttle propulsion systems includes the External Tank, Solid Rocket Boosters, Main and

Auxiliary Engines. You may hear a member of Wernher von Braun's rocket scientist team discuss future space exploration. Topics such as Orbiter Systems, Crew Systems, and Space Suits enlighten you. Putting knowledge to the test, construction and launch of model rockets provides friendly competition.

Astronaut and Mission Training

You'll "gravitate and motivate" with microgravity training, including crew egress training at a nearby pool or lake 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. The Zero "G" Wall may provide yet another chance to assume the role of a mission specialist working in a simulated weightless environment. Other simulators that may be utilized in this program include the Multi-Axis and Manned Maneuvering Unit. 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.

Preparation intensifies for the two upcoming missions. Adrenaline levels soar as the countdown begins. We have liftoff! The commander and pilot achieve orbit, and payload specialists and space station specialists conduct experiments inside Spacelab while mission specialists perform EVAs outside the orbiter's crew cabin. After docking with the space station, the shuttle crew returns to Earth and you exchange team assignments.

Space Technology and the Future

The *Journey to Jupiter* deep space flight adventure will catapult you into a futuristic mindset as it blends sight, sound and motion into "reality."

You Can Fly

SPACE ACADEMY has formed a unique relationship with the University of North Dakota that allows Level I trainees the option of performing experiments while in actual flight. UND



Aerospace flies from Huntsville International Airport and this option is offered on a limited basis. Check with your reservations agent for details.

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

Registration will be Sunday afternoon with a Friday morning graduation. Specific times will be provided in your registration confirmation packet.

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





SPACE ACADEMY°: Level II

Alabama Campus 8 DAY MISSION

Grades 9 thru 12

(Note: All trainees must be at least 14 years old at the time of camp to be eligible to attend.)

U.S. SPACE ACADEMY II carefully mixes classroom study and hands-on training. 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 are eligible to earn one credit hour of college freshman level science.

More than 90 hours of participation means a lot of 14-hour days and immersion in topics such as shuttle orientation, crew systems, orbiter systems, space physiology, international space missions, the

future of space exploration and aerospace careers. You and your team will conduct three 2-hour missions, rotating roles in mission control, the shuttle orbiter and our simulated international space station. Critical thinking and decision making skills are put to the test as you prepare for your **Extended Duration Mission (EDM)**.

Technology - You'll explore the wonders of conducting science in the microgravity environment of space. After learning some basics in space physics, space science, and microgravity science, your Tech Track team will conceive and design an experiment intended for space. You'll also dive into our Underwater Activity Trainer in SCUBA gear to experience the closest thing to microgravity on Earth's surface. When it's time for launch, you may serve as an expert Mission Scientist or Public Affairs Officer in Mission Control, or conduct experiments ranging from space physiology to DNA technology in the orbiter or station. No question, science and technology are the heart of every shuttle mission, and you'll be there in the Tech Track.

Engineering Track - This track is designed to provide hands-on mission training aboard the space shuttle conducting EVA's (Extra Vehicular Activities). You'll take part in an entry-level SCUBA training program. The Zero "G" Wall provides the sensation of neutral buoyancy as you perform a number of tasks. Academic instruction includes robotics, engineering fields and optics. Mission control positions include Propulsions Officer or Communications Officer.

Aerospace Track - Placed in this course of study, you will focus upon educational requirements necessary for a career as an aerospace engineer, shuttle commander, shuttle pilot or aviation professional. Hands-on training includes exercises in space shuttle piloting and Mission Operations Control Room scenarios. Aerospace trainees will also use one of the latest simulators at the AVIATION CHALLENGE training area. The twoman, enclosed cabin of the rotating centrifuge exposes you to the G-forces associated with high performance flight. 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.

You Can Fly

SPACE ACADEMY has formed a unique relationship with the University of North Dakota that allows Level II Aerospace trainees the option of spending actual flight time at the controls of an airplane. UND Aerospace flies from Huntsville International Airport and this option is offered on a limited basis. Check with your reservations agent for details.

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

Registration will be Saturday afternoon with a Saturday afternoon graduation. Specific times will be provided in your registration confirmation packet.

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

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, ear problems or seizures will not be permitted to SCUBA dive. All trainees must be at least 14 years old (at time of camp) in order to SCUBA dive.

AVIATION CHALLENGE®

6 DAY MISSION

AVIATION CHALLENGE introduces you to the total experience of military jet pilot training. You'll learn the fundamentals of flying, then progress through increasingly sophisticated simulator missions, including aerobatics, aircraft carrier take-offs and landings, instrument navigation, low altitude work and air combat maneuvering. Developed by experienced, military aviators, AVIA-TION CHALLENGE teaches flight theory and procedures, aerodynamics, flight systems, propulsion, high performance maneuvering, air-to-ground missile and bombing, and more.

Basic

Grades 7 thru 9

Assigned positions of pilot and "RIO," you will learn what tearnwork is all about as you engage in 18 individual flights of jet pilot training throughout your week. Daily, you'll prepare a flight plan, review your weather report, conduct a mission prebrief, fly your mission and return to the "ready room" for mission debrief. Aerodynamics and complex airto-air maneuvers are reinforced with radio controlled aircraft exercises.

A flight option is offered by the University of North Dakota which will allow actual flight planning and execution for a limited number of squadron members.

Water Survival

Located at the AVIATION CHALLENGE lake, you'll learn the ins and outs (literally) of the Helo Dunker simulation, including "air-lift" with the helicopter hoist. Life raft training requires balance and timing, and survival at sea scenarios test your tenacity.

Land Survival

Whether as a signal or a source of heat, learn the right way to build a fire before you set off to locate food and palatable water. Another basic requirement, shelter, requires keen powers of observation, and a certain amount of engineering ingenuity. Your efforts are good practice for the Blue Flag Competition.

Intermediate

Grades 9 thru 12 9th graders must have previously attended Basic AVIATION CHALLENGE or a



An Exciting New Takeoff for 96!

AVIATION CHALLENGE: Primary Grades 4-6, Must be attending.

Solo in your jet simulator! Just like it's done every day at fighter squadrons across the United States, experience the excitement of learning to fly a high performance jet aircraft. You and a teammate, your copilot, will learn what it takes to put the aircraft through all the maneuvers: airfield operations, aircraft carrier landings/takeoffs, day and night navigation, aircoair maneuvering, and more.



FLIGHT TRAINING

As the pilot of your own jet simulator, you will learn the basics of flight. You and your copilot will spend eight hours in the cockpit mastering the techniques of high-performance flight. The ultimate test comes during a final hour of air-to-air competitions, Top Gun! That aircraft carrier comes up at you pretty fast at 200 knots. Can you catch the wire or do you take the plunge into the deep blue? Each flight also has a pre and post mission briefing conducted by your flight's own Flight Leader.

Hands-on exercises in propulsion, aerodynamics, aeronautics, and physiology round out your complete flight experience.

WATER SURVIVAL

When that dreaded time comes to "bail-out", you will be ready. At the "Challenge" lake, you will master the one and seven-man life rafts. You and your teammates will experience a "crash" and be required to put your water training to the ultimate test. As individual pilots and in team size exercises, you will egress to the safety of the beach for rescue.

LAND SURVIVAL

When there is no water, there is always the trees and ground. Experience what it takes to survive off the land. You will learn the basics of navigation, food and water procurement, signalling, camouflage, shelter building, firecraft, and more. Learn the principles of escape and evasion. You and your flightmates will put your training to the test during the Squadron Green Flag Exercises.

GREEN FLAG EXERCISE

Air High! Now is the time to put it all together. Test the skills mastered during the week. Each flight will "challenge" for the Green Flags coveted distinction as the Ace Flight. Team exercises in water, land, flight, and aviation "facts" will determine the Ace Flight.

Bring some old tennis shoes and old clothes, as this is the Ultimate Challenge!

IMPORTANT INFORMATION

Multiple Family Member Discount

When more than one child from the same family with the same address (i.e.: 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.

Refunds

If you must cancel your registration, you will receive:

• 90% of the tuition if a written notice is received eight weeks or more prior to the session start.

• 75% of the tuition if a written notice is received four 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 leave for other reasons (homesickness, etc.) will not receive a refund.

1996 TUITION

Youth	Grade	Days/Nights	FebMay***	June-Aug.	SeptDec
U.S. SPACE CAMP-Alabama	4-6	6/5	\$550	\$650	\$550
U.S. SPACE CAMP-Florida	4-7	6/5	\$550	\$650	\$550
U.S. SPACE ACADEMY Level I	6-8	6/5	\$575	\$675	\$575
SPACE ACADEMY Level II	9-12	8/7	\$725	\$875	\$725
AVIATION CHALLENGE (Primary)	4-6	6/5	\$550	\$650	\$550
AVIATION CHALLENGE (Basic)	7-9	6/5	\$575	\$675	\$575
AVIATION CHALLENGE (Intermediate)	9-12	6/5	\$725	\$775	\$725
Adult					
Adult SPACE ACADEMY LEVEL I		3/2	\$500	\$500	\$500
Adult AV. CHALLENGE		3/2	\$500	\$500	\$500
U.S. SPACE ACADEMY for Educators		6/5	\$650	\$650	\$650
PARENT & CHILD SPACE CAMP**		3/2	†\$275	†\$275	†\$275

Denotes programs in Alabama and Florida. *Easter tuitions from March 29 - April 13 are the same as June - August session. Tuitions are subject to change without notice. † \$550 total tuition based on one parent and one child attending together.

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. 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.)

Gift Certificates

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

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 the waiting list clears for your chosen session, you will be notified with a confirmation letter.

SESSION DATES

GRADES 4, 5, 6

	U.S	S. SPACE C/	۹MP	(Alabama)
	1995		27	JUNE 30 - JULY 5
•		NOV 5 - 10	28	JULY 7 - 12
	46	NOV 12 - 17	29	JULY 14 - 19
		DEC 3 - 8	30	JULY 21 - 26
	51	DEC 17 - 22	31	JULY 28 - AUG 2
		DEC 27 - JAN 1	32	AUG 4 - 9
	1996		33	AUG 11 - 16
		MARCH 3 - 8	34	AUG 18 - 23
		MARCH 10 - 15	35	AUG 25 - 30
		MARCH 17 - 22	36	SEPT 1 - 6
		MARCH 24 - 29	37	SEPT 8 - 13
	14	MAR 31 - APR 5	38	SEPT 15 - 20
		APRIL 7 - 12	39	SEPT 22 - 27
	16	APRIL 14 - 19	41	OCT 6 -11
	17	APRIL 21 - 26	42	OCT 13 - 18
		APRIL 28 - MAY	3 43	OCT 20 - 25
	19		44	OCT 27 - NOV 1
		MAY 12 - 17	45	NOV 3 - 8
		MAY 19 - 24	46	NOV 10 - 15
	22	MAY 26 - 31	47	NOV 17 - 22
	23	JUNE 2 - 7	49	DEC 1 - 6
	24		50	DEC 8 - 13
	25	JUNE 16 - 21	51	DEC 15 - 20
	26	JUNE 23 - 28	52	DEC 29 - JAN 3

GRADES 7, 8, 9

AVIATION CHALLENGE Basic

JUNE 9 - 14 1995 24 52 DEC 27 - JAN 1 JUNE 16 - 21 25 1996 26 **JUNE 23 - 28** 10 MARCH 3 - 8 27 JUNE 30 - JULY 5 JULY 7 - 12 11 MARCH 10 - 15 28 MARCH 17 - 22 29 JULY 14 - 19 12 13 MARCH 24 - 29 30 JULY 21 - 26 31 JULY 28 - AUG 2 14 MAR 31 - APR 5 APRIL 7 - 12 AUG 4 - 9 15 32 16 APRIL 14 - 19 33 AUG 11 - 16 17 APRIL 21 - 26 34 AUG 18 - 23 APRIL 28 - MAY 3 35 AUG 25 - 30 18 19 MAY 5 - 10 36 SEP 1 - 6 37 SEPT 8 - 13 20 MAY 12 - 17 22 MAY 26 - 31 38 SEPT 15 - 20 23 JUNE 2 - 7 52 DEC 29 - JAN 3

GRADES 6, 7, 8

U.S. SPACE ACADEMY Level I

SAME AS SPACE CAMP ALABAMA

GRADES 4, 5, 6, 7

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1995		25	JUNE 16 - 21
45	NOV 5 - 10	26	JUNE 23 - 28
46	NOV 12 - 17	27	JUN 30 - JUL 5
48	NOV 26 - DEC 1	28	JULY 7 - 12
49	DEC 3 - 8	29	JULY 14 - 19
50	DEC 10 - 15	30	JULY 21 - 26
51	DEC 17 - 22	31	JUL 28 - AUG 2
52	DEC 27 - JAN 1	32	AUG 4 - 9
1996		33	AUG 11 - 16
7	FEB 11 - 16	34	AUG 18 - 23
8	FEB 18 - 23	35	AUG 25 - 30
9	FEB 25 - MARCH 1	36	SEPT 1 - 6
10	MARCH 3 - 8	37	SEPT 8 - 13
11	MARCH 10 - 15	38	SEPT 15 - 20
12	MARCH 17 - 22	39	SEPT 22 - 27
13	MARCH 24 - 29	40	SEPT 29 - OCT 4
14	MARCH 31 - APR 5	41	OCT 6 - 11
15	APRIL 7 - 12	42	OCT 13 - 18
16	APRIL 14 - 19	43	OCT 20 - 25
17	APRIL 21 - 26	44	OCT 27 - NOV 1
18	APRIL 28 - MAY 3	45	NOV 3 - 8
19	MAY 5 - 10	46	NOV 10 - 15
20	MAY 12 - 17	47	NOV 17 - 22
21	MAY 19 - 24	49	DEC 1 - 6
22	MAY 26 - 31	50	DEC 8 - 13
23	JUNE 2 - 7	51	
24	JUNE 9 - 14	52	DEC 29 - JAN 3

GRADES 9, 10, 11, 12

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1995		27	JUNE 29 - JULY 6
49	DEC 3 - 8	28	JULY 6 - 13
50	DEC 10 - 15	29	JULY 13 - 20
52	DEC 27 - JAN 1	30	JULY 20 - 27
1996		31	JULY 27 - AUG 3
10	MARCH 2 - 9	32	AUG 3 - 10
11	MARCH 9 - 16	33	AUG 10 - 17
12	MARCH 16 - 23	34	AUG 17 - 24
13	MARCH 23 - 30	35	AUG 24 - 31
14	MAR 30 - APR 6	36	AUG 31 - SEP 7
15	APRIL 6 - 13	37	SEP 7 - 14
16	APRIL 13 - 20	38	SEP 14 - 21
17	APRIL 20 - 27	39	SEPT 21 - 28
18	APRIL 27 - MAY 4	41	OCT 5 - 12
19	MAY 4-11	42	OCT 12 - 19
21	MAY 18 - 25	46	NOV 9 - 16
22	MAY 25 - JUNE 1	47	NOV 16 - 23
23	JUNE 1 - JUNE 8	49	NOV 30 - DEC 7
24	JUNE 8 - 15	50	DEC 7 - 14
25	JUNE 15 - 22	51	DEC 14 - 21
26	JUNE 22 - 29	52	DEC 28 - JAN 4

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

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27

GRADES 9, 10, 11, 12

AVIATION CHALLENGE Intermediate

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	1995		26	JUNE 23 - 28
	52	DEC 27 - JAN 1	27	JUN 30 - JUL 5
	1996		28	JULY 7 - 12
	10	MARCH 3 - 8	29	JULY 14 - 19
	11	MARCH 10 - 15	30	JULY 21 - 26
	12	MARCH 17 - 22	31	JUL 28 - AUG 2
	13	MARCH 24 - 29	32	AUG 4 - 9
	14	MARCH 31 - APR 5	33	AUG 11 - 16
	15	APRIL 7 - 12	34	AUG 18 - 23
	16	APRIL 14 - 19	35	AUG 25 - 30
	17	APRIL 21 - 26	36	SEPT 1 - 6
	22	MAY 26 - 31	37	SEPT 8 - 13
Ì	23	JUNE 2 - 7	38	SEPT 15 - 20
	24	JUNE 9 - 14	52	DEC 29 - JAN 3
	25	JUNE 16 - 21		

ADULT

U.S. SPACE ACA	ADEI	MY Level I
34 AUG 23 - 25 36 SEPT 6 - 8	37 38	SEPT 13 - 15 SEPT 20 - 22
U.S. SPACE ACA		
36 AUG 31 - SEP 7	37	SEP 7 - 14
AVIATION CHA	LLEN	NGE
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25 JUNE 21 - 23	36	SEPT 6 - 8
29 JULY 19 - 21		

PARENT/CHILD

Florida Campus

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	1995		26	JUNE 28 - 30
	47	NOV 24 - 26	27	JULY 5 - 7
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	2	JAN 12 - 14	30	JULY 26 - 28
ł	7	FEB 16 - 18	31	AUG 2 - 4
1	9	MARCH 1 - 3	32	AUG 9 - 11
Ì	11	MARCH 15 - 17	33	AUG 16 - 18
1	13	MARCH 29 - 31	34	AUG 23 - 25
ł	14	APRIL 5 - 7	35	AUG 30 - SEP 1
j	16	APRIL 19 - 21	37	SEP 13 - 15
Į	19	MAY 10 - 12	38	SEP 20 - 22
1	21	MAY 24 - 26	41	OCT 11 - 13
l	22	MAY 31 - JUNE 2	42	OCT 18 - 20
ĵ	23	JUNE 7 - 9	45	NOV 8 - 10
Į	124	JUNE 14 - 16	48	NOV 29 - DEC 1
	25	JUNE 21 - 23	52	DEC 27 - 29

PARENT/CHILD

Alabama Campus

1995	5	26	JUNE 28 - 30
50	DEC 15 - 17	27	JULY 5 - 7
1996	5	28	JULY 12 - 14
15	APRIL 12 - 14	29	JULY 19 - 21
19	MAY 10 - 12	30	JULY 26 - 28
20	MAY 17 - 19	31	AUG 2 - 4
21	MAY 24 - 26	32	AUG 9 - 11
22	MAY 31 - JUNE 2	33	AUG 16 - 18
23	JUNE 7 - 9	34	AUG 23 - 25
24	JUNE 14 - 16	35	AUG 30 - SEPT 1
25	JUNE 21 - 23	36	SEP 6 - 8

EDUCATORS

SPACE ACADEMY for Educators (Alabama)

24	JUNE 11 - 16	28	JULY 9 - 14
25	JUNE 18 - 23	29	JULY 16 - 21
26	JUNE 25 - 30	30	JULY 23 - 28
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JUNE 25 - 30	28	JULY 9 - 14
JULY 2 - 7	29	JULY 16 - 21

GRADES 4, 5, 6

AVIATION CHALLENGE Primary

13	MARCH 24 - 29	27	JUNE 30 - JULY 5
14	MAR 31 - APR 5	28	JULY 7 - 12
15	APRIL 7 - 12	29	JULY 14 - 19
16	APRIL 14 - 19	30	JULY 21 - 26
23	JUNE 2 - 7	31	JULY 28 - AUG 2
24	JUNE 9 - 14	32	AUG 4 - 9
25	JUNE 16 - 21	33	AUG 11 - 16
26	JUNE 23 - 28		

We reserve the right to cancel a session date if participation numbers are not adequate.

SPACE CAMP/ACADEMY program. and be at least 14 years of age.

Flight Training

Nine hours of simulator time aboard a high performance, "supersonic" jet fighter simulator turns up the tempo as you develop flight skills. See if you can take the stress of 3-G's in the two-man. enclosed cabin of the rotating Centrifuge. This simulator allows you to experience the G-forces associated with high performance flight.

Aircraft carrier operations and air-to-air combat exercises are planned and executed. The ultimate test is your "Red Flag" exercise which combines flight, land and water activities.

Water Survival

Take a deep breath, and begin your descent down the 40-foot, parachute slide wire. After hitting the water you will practice parachute disentanglement techniques, para-drag releases and helohoist rescues.

Land Survival

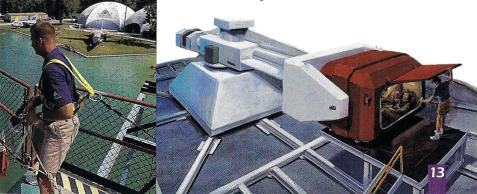
Escape and evasion is the objective: fire building, food and water procurement and shelter building are the basics. Add experience in navigation and signaling and you increase your chances of rescue and survival. The art of camouflage is another skill you'll acquire and practice in evading your teammates and counselors.

There are two flight options available. **Option 1 is offered by the University of** North Dakota. Students will log two hours of actual flight time in a single engine airplane (total time aloft: 3 hrs. 45 mins.). Option 2 is a one-half hour flight in a Sky Warriors T-34 aircraft. You and your veteran fighter-pilot instructor will engage in air-to-air combat maneuvering. Options are available separately, or together.

Arrival & Graduation (Both programs)

Registration will be Sunday afternoon with a Friday morning graduation. Specific times will be provided in your registration confirmation packet.

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.



PARENT & CHILD PROGRAMS

Alabama & Florida 3 DAY MISSION

A positive mental attitude and overall selfconfidence 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

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

Registration, arrival and departure times will be provided in your registration confirmation packet.

Note - Some of the simulators carry height and/or weight restrictions. Maximum weight on most simulators is

> 260 lbs. The minimum height requirement is generally four feet.

ADULT ADVENTURES

SPACE ACADEMY Level I

3 Day Mission

Alabama Campus

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 astronaut training simulators in a unique, 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 T-shirt.

AVIATION CHALLENGE®

A 3-day weekend program, with an optional 2-day, air-to-air combat experience at Sky Warriors* for adults age 19+.

You and your teammates undergo training developed from actual military pilot procedures. You will take the controls for spine-tingling, fighter-pilot simulations featuring air-to-air intercepts. Increase and sharpen your stamina and reflexes as you take on water survival scenarios, parachute disentanglement exercises and life raft rescue procedures — A series of briefings complement hands-on activities and help you hone skills that prepare you for the finale: an aerial combat mission which reveals the real flying ace among you.

*AVIATION CHALLENGE/ SKY WARRIORS 2-day Supplement

The optional Sky Warrior enhancement begins late Sunday. You will travel to Atlanta for the experience of a lifetime! Real opponents. Real T-34 fighter aircraft. A veteran fighter pilot coaches you from the rear seat. Your headset amplifies the staccato shots of your machine gun. If you shoot straight, you see a trail of smoke pour from the defeated aircraft. Following a military style debriefing, you take home the videotape of your cockpit, and gun camera action from your flight.

For those choosing the Sky Warrior option, air departures should be scheduled from Atlanta's Hartsfield International Airport after 6:30 p.m. on Monday. For those arriving by car, transfers are provided between Atlanta and Huntsville.

Registration, arrival and departure times will be provided in your registration confirmation packet.

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

SPACE ACADEMY® For Educators

6 DAY MISSION

MISSION

To assist professional educators in motivating young people toward greater achievement in science and math by providing them with exciting space science and astronaut-style training, resources and applications.

Alabama Campus

This six-day hands-on based program, offered jointly by U.S. SPACE ACAD-EMY and the University of Alabama -Huntsville (UAH), aims to infuse classroom excitement by motivating and inspiring teachers. SPACE ACADEMY for Educators uses the same techniques and mission simulators used in our youth programs and supplements them with classroom applications. NASA's Marshall Space Flight Center supports the program with a tour, guest speakers, and hands-on activities. OMNIMAX presentations in the Space Center's Spacedome Theater excite the senses and imagination.

Two simulated Shuttle Missions allow you to be a part of the Flight and Ground Control Teams. Additional astronaut training simulators give you an out of this world experience certain to be contagious in your classroom. Lectures and labs provided by UAH, NASA and local aerospace industry personnel reflect current research and technological developments in space related subjects. Workshops will give you ideas and activities to implement in the classroom.



Tuition includes meals, accommodations, educational programs, resource materials, T-shirt, and college credit. Graduate level credit is granted in elementary education, secondary education or science, based on participation.

Possible in-service credit may be awarded from your local school system.

Florida Campus

COUNTDOWN TO LEARNING

A hands-on, action-packed week of simulations, idea sharing and fun. Use the excitement of the space program to recharge your batteries and provide the launching pad for new ideas for your students and classroom.

NASA's Kennedy Space Center supports the program with a behind-the-scenes tour of shuttle processing and launch facilities, displays of actual flight hardware at Spaceport USA, and access to the Educator's Resource Laboratory for up-to-the minute classroom materials. IMAX films fire the imagination giving viewers a window into space flight and the universe.

Back at the U.S. SPACE CAMP Training Center, teachers use the same hands-on techniques used in the youth program and supplement them with classroom applications. Guest and staff briefings on space history, rocket propulsion, and shuttle technology provide fuel for classroom use. Each day contains an opportunity for teachers to design and share new ideas and activities with the other participants.

Tuition includes meals, lodging, educational materials including comprehensive log book, T-shirt, hat and flight jacket. Teachers may apply for possible in-service credit through their local school systems.

Registration, arrival, and departure times for all Educators programs will be

provided in your registration confirmation packet.

The Florida SPACE ACADEMY for Educators is co-sponsored and supported by the U.S. SPACE CAMP/ASTRO-NAUT SCHOLARSHIP FOUNDA-TION, NASA at the Kennedy Space Center, and the Astronauts Memorial Foundation.





Transportation

Airline Arrivals

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.

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.

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 TRANSPORTA-TION FORM. Please return this form no later than four weeks prior to your scheduled arrival to ensure assistance and airport transfers.

to arrival, we will assume you are arriving by car and do not require personnel to

meet your plane or bus. Directions will be sent upon request for those driving to SPACE CAMP.

Health Care

In both Alabama and Florida, nurses are available 24 hours a day. A health information form will be included in your confirmation package which must be completed and returned prior to arrival.

Some of the space flight simulators used in the programs may cause motion sickness. Some training devices have height and weight restrictions. Participation in simulator activities is not a requisite for graduation. For health-related questions, needs or requests call 205-721-7162 in Alabama and 407-267-3184 in Florida.

Safety

At U.S. SPACE CAMP, the safety of all trainees is of prime concern. 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

If the form is not received two weeks prior 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.

Housing is provided on site in one of our program-oriented facilities.

Space Academy for Educators -

Housing is provided at the University of Alabama in Huntsville at the Bevill Center.

Parent & Child - Parents and children of different sexes will be housed together subject to dormitory availability. 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.

Florida Programs

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

Housing is provided on site in one of our program-oriented facilities.

Florida Professional Educators

Countdown to Learning - Housing is at a nearby motel.

Parent & Child - 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.

Money Transfer

Travelers checks or Shuttle/Space Bucks (see below) are strongly recommended. SPACE CAMP assumes no liability for cash or items lost. Trainees may purchase Shuttle Bucks in Alabama or Space Bucks in Florida, which are good for SPACE CAMP merchandise and additional food

items. Shuttle Bucks/Space Bucks may be purchased with cash or check.

Early/Late Arrival

A planned and supervised program, including all meals and lodging, is available at a rate of \$60 per day if airline or bus schedules require early arrival or late departure (not available to adults). 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.

Communications

TDD/TTY

We are TDD/TTY accessible for the hearing impaired.

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

In Florida: Name, Date Attending, U.S. SPACE CAMP, 6225 Vectorspace Blvd., Titusville, FL 32780

Allow five days for delivery beyond 100 miles.

VIDEOS, GROUPS, UNIFORMS

Team Videotape

(Note: Video preference overrides teammate preference.)

A videotape of your adventure at SPACE CAMP, SPACE ACADEMY Level I, **AVIATION CHALLENGE and Parent/** Child can be guaranteed ONLY IF YOU ORDER AT LEAST TWO WEEKS IN ADVANCE OF YOUR SESSION. The cost of \$45 includes shipping and handling. Videos (approximately 40 minutes in length) will be received about 6 weeks after graduation. Tapes include 10-12 of the week's activities and feature you and your teammates. A limited number of videos "may" be available to students who do not reserve a video. If we are unable to accommodate your video order, you will receive a refund.

Scholarships

The U.S. Space & Rocket Center offers full-tuition scholarships to deserving students who are currently attending fourth through twelfth grades.

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

The competition is based on short essays submitted by students. To receive a scholarship application, call 1-800-63 SPACE. For further scholarship details write: Scholarship Office, U.S. SPACE CAMP, P.O. Box 070015, Huntsville, AL 35807-7015. (Note: Those seeking a scholarship to the Florida program will apply with 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. You do not have to preregister in order to apply for a scholarship.

Deadlines for receipt of completed essays are January 1 and June 1. Winners will be notified eight to ten weeks after the deadline. Entries are not carried forward to the next competition. Scholarship recipients will attend the spring and fall session. Scholarship applications are available from October 1 to May 1.

Scout Merit Badges

Scout Merit Badges can be earned at SPACE CAMP and AVIATION CHAL-LENGE (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.**

Group Discount Tuitions

Groups may be organized to attend selected U.S. SPACE CAMP/ACADEMY programs during most of our fall, winter and spring sessions and qualify for special group discounts. 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.

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

Uniforms

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

SPACE CAMP & ACADEMY *

(SSP):

2 Tee shirts with logo Package One 2 Shorts with logo 1 Jacket with logo

Package Two	1 Tee shirt with logo
(WSP):	1 Short with logo
	1 Sweat shirt with logo
	1 Sweat pant with logo
	1 Jacket with logo

Package Three	Flight suit
(FLT):	Name tag

AVIATION CHALLENGE*

Package Two	1 Tee shirt with logo
(WSP):	1 Short with logo
	1 Sweat shirt with logo
	1 Sweat pant with logo
	1 Jacket with logo

Package Three Flight suit Name tag (FLT):





BASIC: May be purchased as a prepaid package. (Suit is not provided as part of the program).

INTERMEDIATE & LEVEL II: A

flight suit is provided to camper for use during camp. A new suit may be purchased in the prepaid package for the camper to keep.

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. *Some items may varv due to availability.

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.

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.

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.

WE WOULD LIKE TO ASSIST YOU WITH YOUR TRAVEL ARRANGE-MENTS TO SPACE CAMP. FOR PRE-ARRANGED SPECIAL RATE INFORMATION PLEASE CALL 1-800-63-SPACE.



Delta, the official airline of U.S. SPACE CAMP, offers special rates for the DELTA 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 a.m. to 8 p.m. Eastern Time) for reservations. Be sure to ask for the file "SPACE CAMP."

Budget carand truck rental

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. (In Florida ask for rate code VK-RI-CAMP. Rates are valid in Orlando, Melbourne, Cocoa Beach, Titusville and Daytona.)

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 in Titusville, Fla., located at the entrance to



the NASA Kennedy Space Center, tells the human story of America's manned space flight program. Then, share an adventure aboard the Shuttle to Tomorrow exhibit which features a multisensory video inside the cargo bay of a full size space shuttle orbiter replica.

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.



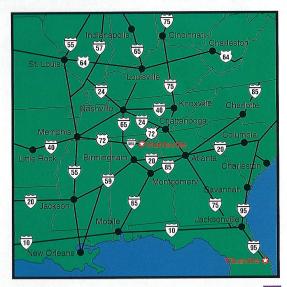
Guided bus tours take you near the massive Vehicle Assembly Building, an authentic Saturn V moon rocket, and the shuttle launch pads. While at Spaceport, don't miss the IMAX movies. Spaceport USA opens daily at 9:00 a.m.

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

SPACE CAMP families are entitled to the benefits of Universal Studios Florida Fan Club. 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





The above corporations are partners of U.S. SPACE CAMP[®], U.S. SPACE ACADEMY[®] and the U.S. Space & Rocket Center. The Center acknowledges the significant support of its educational activities by these and other contributors.



U.S. Space & Rocket Center

One Tranquility Base, Huntsville, AL 35805

1-800-63-SPACE

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