



ALABAMA/FLORIDA

THE FUTURE IS OUR YOUTH

A message from the General Manager: At U.S. SPACE CAMP, young people experience a full spectrum of sensations through one-of-a-kind, hands-on educational programs. They also explore a

new world of fun, and discover something very In addition to the fun, learning environment, we important - their ability to dream. expose students to teamwork and cooperative

leadership, so that they can gain the self-confidence and self-esteem to persue their dreams. Teaching young people about the importance of science and technology while motivating them to reach for the stars. These are some of the goals at U.S. SPACE CAMP, and we hope that we share such values

with you.

Richard Allen, General Manager U.S. Space & Rocket Center U.S. SPACE CAMP

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 5 DAY MISSION

Grades 4 thru 6

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

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

Physical fitness is important to everyone — and especially to astronauts. So, your

day begins "The Dream is A with calisthenics. Then, go ahead, grab

your swimsuit and take the plunge to experience astronaut water survival training. And clean is the name of the game, or rather "clean room," as you and your team construct a satellite in a simulated sterile environment. 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 the 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 EVA's (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, Maneuvering Pod, and Space Walker. "The Dream is Alive," shown in the U.S.



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

=U.S. Space Camp Launch 利

(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.

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 5 DAY MISSION

Grades 4 thru 7

3-2-1 LIFT-OFF on the adventure of a lifetime at U. S. Space camp, Florida. Located at the entrance to NASA's Kennedy Space Center, campers will share the excitement that put America's Space program into orbit.

Conduct a test countdown with the launch of your very own model rocket from the Space Camp Launch Complex.
Imagine what it was like for a Mercury astronaut to tumble to Earth 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 Degree of Freedom simulator.

• Ever wonder what it would feel like to walk of the moon? Take your own giant leap on the one-sixth gravity chair.

• Then, hang suspended on the zerogravity 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 as 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 to launch your own personal space adventure. 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 ground control.

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 do, using a state of the art star projector.

With Space Shuttle Launch Complex 39 at our back door, Florida's SPACE CAMPERs have the unique opportunity to see first hand 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 spaceflight. The five and one half story screen in the IMAX footage is the next best thing to actually being in space. IMAX films include "The Dream Is Alive" and "Destiny In Space."

Learn about the special tools required to live and work in space when you try on a space suit and sample freeze-dried astronaut food.

And if all that weren't

UNITED

ASTRO HALL OF ATES

enough, there are also high tech discussions and demonstrations of the latest in space shuttle technology, the thermal protection system, and strange science phenomena.

The Experience

At SPACE CAMP we focus on teamwork as a means to teach and develop problem-solving skills. The cornerstone of SPACE CAMP's philosophy is that children 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 children 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 with the space program.

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 5 DAY MISSION

Grades 6 thru 8

ACADEMY I is open to 6th graders who have previously attended SPACE 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. Georg von Tiesenhausen, a member of Wernher von Braun's rocket scientist team, discusses 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. Plus, some trainees take on such subject matters as robotics and remote sensing.

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. EVA (Extra-Vehicular Activity) task boards — satellite capture and repair, truss structure EVA and other activities are possible assignments. Other simulators that may be utilized in this program include the Multi-Axis, Manned

Maneuvering Unit and Maneuvering Pod.

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 and then — the moment arrives. 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 EVA's 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



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

U.S. SPACE ACADEMY II carefully mixes classroom study and hands-on training. 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 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 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).

Technology - As an aspiring payload specialist, you will conduct experiments aboard the space shuttle and space station simulators. 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 space physics, microgravity science and space science. Mission control positions include Public Affairs Officer or Mission Scientist.

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 entrylevel SCUBA training program. The Zero "G" Wall provides the sensation of neutral buoyancy as you perform a number of tasks, including satellite capture and repair, truss structure EVA and solar array deployment EVA. 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 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.

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You Can Fly

SPACE ACADEMY has formed a unique relationship with the University of North Dakota that allows Level II 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

Stationweeks prior to session date and no. Missionearlier than three months prior topositionssession date. Physical requirements aree Flightnoted on form. Trainees with anyhistory of asthma, ear problems orCAPCOM.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[®]

5 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 and more.

Basic

Grades 7 thru 9

Flight Training

Assigned positions of pilot and "RIO," you and a partner will learn what teamwork is all about as you engage in eight hours 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. Studies in aerodynamics are given a boost with radio controlled aircraft exercises.

Tuition includes meals, educational programs and materials, accommodations and T-shirt. Each graduating trainee receives AVIATION

12

CHALLENGE wings, a certificate and a color group photograph. Team and individual awards are also presented. A flight option will be offered by the University of North Dakota which will allow a limited number of Basic trainees the experience of performing experiments while in actual flight

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.



HOW TO REGISTER

Tuition includes meals, accommodations and materials

Registration Procedures

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

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.

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.

1995 TUITION

Youth	Grade	Days	FebMay***	June-Aug.	SeptDec
U.S. SPACE CAMP-Alabama	4-6	5	\$500	\$600	\$500
U.S. SPACE CAMP-Florida	4-7	5	\$500	\$600	\$500
U.S. SPACE ACADEMY Level I	6-8	5	\$550	\$650	\$550
SPACE ACADEMY Level II	9-12	8	\$725	\$775	\$725
AVIATION CHALLENGE (Basic)	7-9	5	\$550	\$650	\$550
AVIATION CHALLENGE (Intermediate)	9-12	5	\$550	\$650	\$550
Adult					
Adult SPACE ACADEMY LEVEL I		3	\$500	\$500	\$500
Adult AV. CHALLENGE		3	\$500	\$500	\$500
Educators, Discovering Space*		5	\$650	\$650	\$650
Educators, Space Orientation*		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 March 27 -April 8 are the same as June-August session. Session 22, May 29-June 3 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.

Mail: You may also register by mailing a completed application, noting choice of session dates (subject to availability) to: U.S. SPACE CAMP 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 traveling 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.

HOW TO REGISTER continued

Save \$50 with a SPACE CAMP Friend

Two or more U.S. SPACE CAMP trainees (grades 4, 5, 6 or 7) who plan to attend prior to May 29, 1995, 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 (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.

Multiple Attendance Discounts

If you have attended three sessions of SPACE CAMP, ACADEMY or AVIATION CHAL-LENGE, 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 second 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 leave for other reasons (homesickness, etc.) will not receive a refund.

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 CAN	ИP	(Alabama)
1994		29	JULY 16 - 21
50	DEC 11 - 16	30	JULY 23 - 28
52	DEC 27 - JAN 1, '95	31	JULY 30 - AUG 4
1995		32	AUG 6 - 11
10	MARCH 5 - 10	33	AUG 13 - 18
11	MARCH 12 - 17	34	AUG 20 - 25
12	MARCH 19 - 24	35	AUG. 27 - SEPT.
13	MARCH 26 - 31	36	SEPT 3 - 8
14	APRIL 2 - 7	37	SEPT 10 - 15
15	APRIL 9 - 14	38	SEPT 17 - 22
16	APRIL 16 - 21	39	SEPT 24 - 29
17	APRIL 23 - 28	40	OCT 1 - 6
18	APRIL 30 - MAY 5	41	OCT 8 - 13
19	MAY 7 - 12	42	OCT 15 - 20
20	MAY 14 - 19	43	OCT 22 - 27
21	MAY 21 - 26	44	OCT 29 - NOV 3
23	JUNE 4 - 9	45	NOV 5 - 10
24	JUNE 11 - 16	46	NOV 12 - 17
25	JUNE 18 - 23	48	NOV 26 - DEC 1
26	JUNE 25 - 30	49	DEC 3 - 8
27	JULY 2 - 7	50	DEC 10-15
28	JULY 9 - 14	51	DEC 27 - JAN 1

GRADES 7, 8, 9 AVIATION CHALLENGE Basic

10	MARCH 5 - 10	26	JUNE 25 - 30
11	MARCH 12 - 17	27	JULY 2 - 7
12	MARCH 19 - 24,	28	JULY 9 - 14
13	MARCH 26 - 31	29	JULY 16 - 21
14	APRIL 2 - 7	30	JULY 23 - 28
15	APRIL 9 - 14	31	JULY 30 - AUG 4
16	APRIL 16 - 21	32	AUG 6 - 11
17	APRIL 23 - 28	33	AUG 13 - 18
18	APRIL 30 - MAY 5	34	AUG 20 - 25
19	MAY 7 - 12	35	AUG. 27 - SEPT. 1
22	MAY 28 - JUNE 2	36	SEPT 3 - 8
23	JUNE 4 - 9	37	SEPT 10 - 15
24	JUNE 11 - 16	38	SEPT 17 - 22
25	JUNE 18 - 23	51	DEC 27 - JAN 1

GRADES 6, 7, 8

U.S	S. SPACE ACA	ADEMY Level I
1994		1995
49	DEC 4 - 9	SAME AS SPACE
52	DEC 27 - JAN 3, '95	CAMP ALABAMA

GRADES 4, 5, 6, 7

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U.	S. SPACE CAI	MP	(Florida)
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49	DEC 4 - 9	28	JULY 9 - 14
50	DEC 1116	29	JULY 16 - 21
51	DEC 18 - 23	30	JULY 23 - 28
52	DEC 27 - JAN 1, '95	31	JULY 30 - AUG 4
1995	5	32	AUG 6 - 11
7	FEB 12 - 17	33	AUG 13 - 18
8	FEB 19 - 24	34	AUG 20 - 25
9	FEB 26 - MARCH 3	35	AUG. 27 - SEPT. 1
10	MARCH 5 - 10	36	SEPT 3 - 8,
11	MARCH 12 - 17	37	SEPT 10 - 15
12	MARCH 19 - 24	38	SEPT 17 - 22
13	MARCH 26 - 31	39	SEPT 24 - 29
14	APRIL 2 - 7	40	OCT 1 - 6
15	APRIL 9 - 14	41	OCT 8 - 13
16	APRIL 16 - 21	42	OCT 15 - 20
17	APRIL 23 - 28	43	OCT 22 - 27
18	APRIL 30 - MAY 5	44	OCT 29 - NOV 3
19	MAY 7 - 12	45	NOV 5 - 10
20	MAY 14 - 19	46	NOV 12 - 17
21	MAY 21 - 26	47	NOV 19 - 24
22	MAY 28 - JUNE 2	48	NOV 26 - DEC 1
23	JUNE 4 - 9	49	DEC 3 - 8
24	JUNE 11 - 16	50	DEC 10 - 15
25	JUNE 18 - 23	51	DEC 17 - 22
26	JUNE 25 - 30	52	DEC 27 - JAN 1

GRADES 9, 10, 11, 12

U.S.	SPACE	ACADEMY	Level II
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10	MARCH 4 - 11	28	JULY 8 - 15
11	MARCH 11 - 18	29	JULY 15 - 22
12	MARCH 18 - 25	30	JULY 22 - 29
13	MARCH 25 - APR 1	31	JULY 29 - AUG 5
14	APRIL 1 - 8	32	AUGUST 5 - 12
15	APRIL 8 - 15	33	AUGUST 12 - 19
16	APRIL 15 - 22	34	AUGUST 19 - 26
17	APRIL 22 - 29	35	AUG. 26 - SEPT. 2
18	APRIL 29 - MAY 6	36	SEPT 2 - 8
19	MAY 6 - 13	37	SEPT 9 - 16
22	MAY 27 - JUNE 3	38	SEPT 16 - 23
23	JUNE 3 - 10,	39	SEPT 23 - 30
24	JUNE 10 - 17	40	SEPT 30 - OCT 7
25	JUNE 17 - 24	41	OCT 7 - 14
26	JUNE 24 - AUG 1	42	OCT 14 - 21
27	JULY 1 - 8	51	DEC 26 - JAN 2

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

1994

11 MA

19 MA

20 MA

21

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24 JUN

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52 DE 1995

GRADES 9, 10, 11, 12

AVIATION CHALLENGE Intermediate

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10	MARCH 5 - 10	26	JUNE 25 - 30
11	MARCH 12 - 17	27	JULY 2 - 7
12	MARCH 19 - 24	28	JULY 9 - 14
13	MARCH 26 - 31	29	JULY 16 - 21
14	APRIL 2 - 7	30	JULY 23 - 28
15	APRIL 9 - 14	31	JULY 30 - AUG 4
16	APRIL 16 - 21	32	AUG 6 - 11
17	APRIL 23 - 28	33	AUG 13 - 18
18	APRIL 30 - MAY 5	34	AUG 20 - 25
19	MAY 7 - 12	35	AUG 27 - SEPT. 1
22	MAY 28 - JUNE 2	36	SEPT 3 - 8
23	JUNE 4 - 9	37	SEPT 10 - 15
24	JUNE 11 - 16	38	SEPT 17 - 22
25	JUNE 18 - 23	51	DEC 27 - JAN 1

ADULT

U.,	S. SPACE AG	CADE	EMY Level I	
1994	L	36	SEPT 8 - 10	
49	DEC 9 - 11	38	SEPT 22 - 24	
1995	5	39	SEPT 29 - OCT 1	
34	AUG 25 - 27			

ADULT

AVIATION CHALLENGE

20	MAY 19 - 21	33	AUG 18 - 20
25	JUNE 23 - 25	37	SEPT 15 - 17
29	JULY 21 - 23		

PARENT/CHILD

Florida Campus

2	JAN 13 - 15	29	JULY 21 - 23
7	FEB 17 - 19	30	JULY 28 - 30
15	APRIL 14 - 16	31	AUG 4 - 6
19	MAY 12 - 14	32	AUG 11 - 13
21	MAY 26 - 28	33	AUG 18 - 20
22	JUNE 2 - 4	34	AUG 25 - 27
23	JUNE 9 - 11	35	SEPT 1 - 3
24	JUNE 16 - 18	37	SEPT 15 - 17
25	JUNE 23 - 25	40	OCT 6 - 8
26	JUNE 30 - JULY 2	47	NOV 24 - 26
27	JULY 7 - 9,	52	DEC 29 - 31
28	JULY 14 - 16		

PARENT/CHILD

Alabama Campus

	26	JUNE 30 - JULY 2
DEC 26 - 28	27	JULY 7 - 9
San an an a bao	28	JULY 14 - 16
MARCH 17 - 19	29	JULY 21 - 23
MAY 12 - 14	30	JULY 28 - 30
MAY 19 - 21	31	AUG 4 - 6
MAY 26 - 28	32	AUG 11 - 13
JUNE 2 - 4	33	AUG 18 - 20,
JUNE 9 - 11	51	DEC 22 - 24
JUNE 16 - 18	52	DEC 29 - 31
JUNE 23 - 25		

EDUCATORS

DISCOVERING SPACE: THE CLASSROOM CONNECTION (Alabama) Call For Dates

SPACE ORIENTATION FOR PROFESSSIONAL EDUCATORS (Alabama) Call For Dates

COUNTDOWN TO LEARNING (Florida)

FEB 14 - 19,	29	JULY 18 - 23
MARCH 14 - 19	32	AUG 8 - 13
JUNE 20 - 25		

Red dates indicate School Group Season. These select sessions have been designed for groups with common education goals. Spring dates are also available for groups. Call group reservations for details at 1-800-63 SPACE

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

Intermediate

Grades 9 thru 12 9th graders must have previously attended SPACE CAMP either in Alabama or Florida

Flight Training

4

Nine hours of simulator time aboard a high performance, "supersonic" jet fighter simulator turns up the tempo and the heat as you learn to work as a team and can take the stress of a 3-G force with one of AVIATION CHALLENGE's latest program. simulators. The two-man, enclosed cabin of the rotating Centrifuge exposes you to the G-forces associated with high performance flight.

Aircraft carrier operations and exercises in catapult launch and arrested landing procedures are practiced. The ultimate test is your 12-hour, "Red Flag" exercise which combines flight, land and water activities.

Water Survival

Phew! "It's a lot further from up here than it looks from the ground." That could be the thought going through your mind right before you take a breath,

swallow and begin your descent down the 40 ft. parachute slide wire. After hitting the water you will practice parachute disentanglement techniques, para-drag releases and helo-hoist rescues.

Land Survival

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 develop leadership skills. Plus, see if you survival. The art of camouflage is another skill you'll acquire in this advanced

> The 1995 season offers a choice of flight options. Option 1 is offered by the University of North Dakota. Trainees will log two hours of actual flight time behind the controls of a single engine airplane. The total experience is three and one-half hours of flight time. Option 2 is a one-half hour flight in a Sky Warriors T-34 aerial laser aircraft and is strictly air-to-air combat maneuvering against a fellow teamate. Both options are available either seperately, or together.

Arrival & Graduation (Both programs)

Registration will be Sunday afternoon with a Friday morning graduation. Specific times confirmation packet.



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, T-shirt, and hat.

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+.

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 cockpit 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. Test your physical and emotional mettle with 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

5 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

DISCOVERING SPACE: THE CLASSROOM CONNECTION

This hands-on based program aims to infuse classroom excitement by motivating and inspiring teachers. It uses the same hands-on techniques with training and mission simulators used in our youth programs and supplements them with classroom applications. Marshall Space Flight Center, NASA's leading center for propulsion development, supports the program. Teachers may apply for possible in-service credit through their local school systems.

Guest and staff briefings provide fuel for classroom use; Omni-Max presentations fire the imagination. Hands-on ideas in a special Classroom Connection session and rocket building activity greatly enhance the "hands-on" astronaut and mission training. Two simulated shuttle

VASI

missions allow you to participate in roles both on the ground and in space.

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



SPACE ORIENTATION FOR **PROFESSIONAL EDUCATORS—SOPE** A five-day program offering college credit.

This program is offered jointly by U.S. SPACE ACADEMY and the University of Alabama in Huntsville (UAH). Supported by NASA's Marshall Space Flight Center through a tour, guest speakers and handson activities at the Marshall Discovery Lab. Lectures and labs are provided by university and NASA personnel to reflect current research and technological developments in space related subjects. Hands-on astronaut and mission training in the U.S.

> SPACE CAMP Training Center instills excitement certain to be contagious in the classroom.

Tuition includes meals. educational programs,

resource materials, accommodations, and college credit. Three semester hours of graduate credit are granted in elementary education, secondary education or science, opportunity for teachers to design and based on participation.

NOTE: SOPE is open to U.S. educators one week in 1995. Alabama teachers may attend other weeks. Contact the Alabama State Department of Education for more information.

Florida Campus

COUNTDOWN TO LEARNING

A hands-on, action-packed week of simulations, idea sharing and fun. Use the provided in your registration confirmaexcitement 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 Kennedy Space Center, and the Astroof shuttle processing and launch facilities, nauts Memorial Foundation. displays of actual flight hardware at Spaceport USA, and access to the Educator's Resource Laboratory for upto-the minute classroom materials. IMAX films fire the imagination giving viewers a window into space flight and the universe. The Astronauts Memorial Foundation, along with 1993 national Teacher of the Year Tracey Bailey, hosts an interactive technology briefing at the Center for Space Education.

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 share new ideas and activities with the other participants.

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

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

The Florida SPACE ACADEMY for Educators is co-sponsored and supported by the U.S. SPACE CAMP/MERCURY SEVEN FOUNDATION, NASA at the



DATA

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 4 weeks prior to your scheduled arrival to ensure assistance and airport transfers.

If the form is not received two weeks prior Housing - Bed sheets and blanket, pillow to arrival, we will assume you are arriving and pillow case, towels and washcloths 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

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.

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. 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

1 ravelers checks or Shuttle/Space Bucks (see below) are strongly recommended. SPACE CAMP assumes no liability for cash or items lost. Trainees may purchase Allow 5 days for delivery beyond 100

Shuttle Bucks in Alabama or Space Bucks miles.

in Florida, which are good for SPACE CAMP merchandise and additional food items. If Shuttle Bucks/Space Bucks are lost or stolen, they are reimbursable after 3 weeks. Shuttle Bucks/Space Bucks may be purchased with cash or check.

Early/Late Arrival

Counselor supervision, meals and lodging are available at a rate of \$60 per day if air-line 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.

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

VIDEOS, GROUPS, UNIFORMS

Team Videotape

A videotape of your adventure at SPACE CAMP, SPACE ACADEMY Level I, AVIATION CHALLENGE and Parent/ Child is available ONLY IF YOU ORDER a scholarship. Should you receive a AT LEAST TWO WEEKS IN AD-VANCE 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 Scout Merit Badges should both express teammate preference and order videos in each of your telephone SPACE CAMP and AVIATION CHALreservations and/or applications. 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 (3 minutes per trainee). If we are unable to accommodate your video order, you will receive a refund.

Note: Video preference overrides teammate preference.

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 scholarship, your tuition will be refunded. You do not have to preregister in order to apply for a scholarship.

Scout Merit Badges can be earned at 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

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 organ-ized to attend selective 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. 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.

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 (FLT): Name tag





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 vary 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 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. 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 VARC-PACE. 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 options. For a complete Space Coast at no charge.

The U.S. Astronaut Hall of Fame in Titusville, FL, 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 SPACE CAMP registration. exhibit which features a multi-sensory

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 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 35807

1-800-63-SPACE

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