



OVERVIEW

The ***Aerospace Adventures Summer Youth Program*** provided a six-day interactive experience for 40 middle and high school students. This exciting program was offered at the Florida State College at Jacksonville’s Aviation Center of Excellence and was implemented by professionals with aviation and aerospace professional backgrounds.

The program was conducted from June 20 through June 25, 2011 from 9:00 a.m. to 3:30 p.m. and featured a combination of aviation and aerospace experiences and Science, Technology, Engineering and Mathematics (*STEM*) learning objectives.

The Aerospace Adventures Summer Youth Program was ideal for students with an interest in aviation and high-tech careers. The instructors and guest speakers were from across the country and recognized for their knowledge in aviation and aerospace fields.

PARTICIPANT ASSESSMENT

The Aerospace Summer Youth Program pre-test evaluation tool was administered to all forty (40) participants on the first day of the program. The post-test evaluation tool was administered at the conclusion of the six-day event. The pre-test and post-test consisted of ten (10) questions arranged for variance, content discrimination, and identical environmental factors.

ASSESSMENT SUMMARY

Pre-test scores resulted in a total of two hundred and eighty-eight (280) correct answers and one hundred and twelve (112) incorrect answers.

Post-test scores resulted in three hundred twenty-nine (329) correct and seventy-one (71) incorrect.

PRE-TEST AVERAGES
72% Correct
28% Incorrect

POST-TEST AVERAGES
82.25% Correct
17.75% Incorrect

AVERAGES SUMMARY
41 total increase in correct answers
1.025 average increase per student correct answers
14.24% average increase in correct answers



Timeline

An overview of the major activities carried out through the pre-implementation, implementation, and post-implementation phases of the project.

<i>Aerospace Adventures Summer Youth Program</i> YEAR ONE	December 2010 - March 2011	March - June 2011	June - July 2011	July - August 2011
Design/Refine Program Objectives &Activities				
Promote Program to Youth & Enroll Participants				
Organize/Order Materials & Supplies				
Implement Program				
Data Collections, Evaluation and Final Report				

PARTICIPANT FORMAL EVALUTIONS

Day 1 - Aerodynamics, Aircraft, Airport Environment & Weather - Youth Aviation Adventure (YAA)

Excellent	96%
Good	4%
Satisfactory	
Unsatisfactory	
Poor	

Day 2 - Air Traffic Control Day – FAA/NASA Smart Skies & ATC Tower Tour

Excellent	98%
Good	2%
Satisfactory	
Unsatisfactory	
Poor	

Day 3 - Astronomy - Unmanned Aircraft Vehicles Day & Evening with the Stars

Excellent	97%
Good	2%
Satisfactory	1%
Unsatisfactory	
Poor	

Day 4 - Space Day - Commercial Space Flight

Excellent	96%
Good	4%
Satisfactory	
Unsatisfactory	
Poor	



Day 5 - Careers in Aviation & Space – Simulator Lab - Build & Fly

Excellent	100%
Good	
Satisfactory	
Unsatisfactory	
Poor	

Day 6 – Graduation – Jacksonville Aircraft Services Educational Facility - Flightstar Tour

Excellent	100%
Good	
Satisfactory	
Unsatisfactory	
Poor	

Would you attend another youth program?

Yes	100%
No	

What would you have liked to learn more about during this year’s program? Next year’s program?

- *I would have liked to learn more advanced information (2 responses)*
- *Aerospace engineering and pilots*
- *More time on the ATC simulators (3 responses)*
- *I would like to learn more about the language of air traffic control*
- *Learn about air traffic control before going into the simulators*
- *Learn more about how to fly (3 responses)*
- *How it feels to be in the cockpit*
- *I would have like to learn more about commercial, military pilots (3 responses)*
- *Flying helicopters*
- *More about how to become a pilot (2 responses)*
- *I would like to learn more about the history of flying*
- *Airport weather and the weather environment*
- *I would like to learn more about UAVs (3 responses)*
- *Mechanics of airplanes*
- *Astronomy*
- *Build model airplanes*
- *More about aviation and space*



Overall knowledge of instructors	
Excellent	98%
Good	2%
Satisfactory	
Unsatisfactory	
Poor	

Usefulness of hand-outs and materials provided	
Excellent	97%
Good	3%
Satisfactory	
Unsatisfactory	
Poor	

Quality of facilities (remote control flying and air traffic control tower tour)	
Excellent	97%
Good	2%
Satisfactory	1%
Unsatisfactory	
Poor	

Any additional comments?	
<ul style="list-style-type: none"> • <i>End the camp at 4:00 so we can have more fun</i> • <i>More time to play outside</i> • <i>Icebreaker on first day</i> • <i>Two week camp to learn more about aviation and space</i> • <i>Hangar was hot and noisy (2)</i> 	

UNSOLICITED TESTIMONIALS

After coming to see Cody graduate on Saturday, my oldest son, Connor has decided that he wants to start the airframe mechanics program!!! He was so impressed with the Flightstar facility and the FSCJ program that he wants to start right away!! Such a blessing...thank you again for everything you do!!!!

Christine

I would first like to thank you (Ms. Rice) and the instructors for the opportunity to attend the Aerospace Adventure Summer Program. It was a wonderful experience.

Thank you again for everything.

Derryle



You can tell when your kid is really enjoying himself because, what they did during the day is the first thing that comes out of their mouth, when they get into the car!

You can always tell when someone enjoys their job because; passion is seen in everything they do concerning their work. Thank you for making this such a fun and memorable learning experience for James and the rest of the campers.

I appreciate all that you have done,

Kim

Thanks for the great camp, Jared loved it and is looking forward to next year!

Thanks again,

Dave

Judy has been an absolute pleasure to work with throughout. Her enthusiasm is contagious and her passion for enriching the lives of America's future is inspirational. I look forward to the opportunity to participate in next summer's program!

Rick S., Clay County Academy of Model Aeronautics

The graduation ceremony was beautiful and all the kids really enjoyed themselves. Thank you for a very fun and informative day. I didn't realize there were so many options for employment in the field of aviation. My daughter, who is 19 years-old and attended the ceremony, now wants to become an aircraft coating technician!

Thanks again for everything and have a wonderful weekend.

Kim