



OCEANS TO ORBITS

STEM/STEAM

2-5 DAY 2025/26 STUDENT EXPEDITIONS

GRADES 6-12

EXPEDITION OVERVIEW & OBJECTIVES

WELCOME TO OCEANS TO ORBITS

*Majoring in the
Rest of your Life!*



MISSION STATEMENT



- To provide students with an opportunity to explore a wide range of SCIENCE, TECHNOLOGY, ENGINEERING, ARTS, and MATH career paths. . . and what it will take academically to pursue their passions.
- To MOTIVATE students to EXCEL in their course selections.
- To help students develop a sense of FOCUS and PURPOSE.
- To introduce students to the different types of STEM/STEAM post-secondary institutions. . . *REGARDLESS OF WHERE THEY CONTINUE THEIR EDUCATION.*

KENNEDY SPACE CENTER

*Experience Planet
Earth's premier
gateway to space.*


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DEEP SPACE EXPLORATION

*Learn how NASA is
preparing for space
colonization.*


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PREPARING FOR LIFTOFF!

Experience the interactive exhibits, and participate in a private briefing on NASA's upcoming missions. . . involving the first woman to land on the moon!


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HANDS-ON ACTIVITY

*Students compete to build
an Orion crew module that
will keep "astronauts"
seated & secure through a
series of drop tests!
NASA's next crew capsule!*



EXPERIENCE A SIMULATED FLIGHT TO THE INTERNATIONALLY RECOGNIZED BOUNDARY OF SPACE

*Your Crew Capsule includes
VR headsets with sound,
sights, and seats that
move and rumble!*



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MEET 2 OF YOUR KENNEDY SPACE CENTER FACILITATORS

***Kirstin** (Florida Teacher) &
John (NASA Engineer)*


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MOTE MARINE LABORATORY & AQUARIUM GULF OF MEXICO

*Learn why estuaries are
one of the most productive
ecosystems on earth
where ocean salt water
mixes with freshwater
bodies of water.*



ESTUARY STUDY OF FISH, ANIMALS & PLANTS

A closeup comparison of biotic factors (living things, i.e. plants & animals) vs abiotic factors (non-living components, i.e. soil & water) that make up ecosystems.



MOTE MARINE LABORATORY & AQUARIUM RESEARCH

Learn how Mote's Marine's research focuses on understanding the population dynamics of manatees, dolphins, sea turtles, sharks & coral reefs. . . and on conservation & restoration efforts related to these species & ecosystems.




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Enjoy a guided ecosystem kayak adventure for a close look of the Atlantic Coast's 4,000 species of plants & animals.



A TECH & ENGINEERING INSTITUTION CASE STUDY: EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

9 Top 10 Rankings,
U.S. News & World Report
Welcoming & Orientation



COLLEGE OF ENGINEERING SESSION

*Learn about 3D Design,
3D Sculpting, and how 3D
Modeling helps engineers
scrutinize all aspects of
concept design.*



PARTICIPATE IN RESEARCH LAB PRESENTATIONS

*Learn about the
future of flying cars,
electric planes, and
astrophysics discoveries.*


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CAREER COUNSELING WORKSHOP

"Finding Your Career Roots"



What To Do After High School

Apprenticeship Programs

an apprentice is a person who is--

- at least 16 years old,
- being trained in a particular trade by a skilled worker under a planned program (on the job,
- taking classroom instruction through adult education, at a community college, or in regular school if in a part time job), and
- in training anywhere from one to six years (depending upon the trade--averaging three to four years).

Some additional facts:

- Employment is based on supply and demand
- The person wanting an apprenticeship may apply to and have a contract with one of the following:
 - an employer in the trade
 - the association of employers
 - the joint apprenticeship committee
 - the organization of employees registered with the apprenticeship council

For further information about specific apprenticeship programs, check in the career center and/or meet with your counselor.

College/University

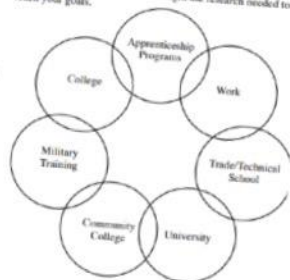
Here are several types of colleges and universities. The career center at your school and your counselor have additional resources to help you choose the right school to pursue your career interests.

Military Training

You can learn about your chances for success in the military by taking the Armed Services Vocational Aptitude Battery (AS-VAB). This test is given at local high schools free of charge.

Men and women may enlist in all branches of the military; enlistment procedures are similar, but the services differ in length of enlistment and opportunities for specific training. Active military enlistments are available in the U.S. Army, Navy, Air Force, Marine Corps, and Coast Guard.

Find your circles of interest and begin the research needed to reach your goals.



Trade and Technical Training

The Thomas Edison High School of Technology and many high schools offer a variety of programs in which students may obtain technical training during high school. Landscaping, home technology, and systems engineering technology are a few of the programs that begin in high school and continue at Montgomery College.

Community colleges, adult education, and private schools have trade and technical training programs for people who are no longer in high school.

Work/Postsecondary Education

If you decide to get a job immediately after high school you should--

- develop some job finding and job keeping skills,
- talk to a counselor or a career information coordinator about job possibilities and/or visit the Maryland State Department of Employment and Training office,
- visit with a cooperative work experience teacher in your high school,
- visit your career and media centers,
- talk with employers about combining work and a part time college program, and
- investigate career education courses that match your interests.

FROM NASA TO NASCAR

*Learn how Mechanical
& Design Engineering
put the engine in
engineering!*


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DAYTONA INTERNATIONAL SPEEDWAY & MOTORSPORTS HALL OF FAME

*Including a behind-the-scenes
tour of the world famous
Daytona International
Speedway and the displays
honoring motorsports legends.*


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A LIBERAL ARTS INSTITUTION CASE STUDY: ROLLINS COLLEGE

*Experience a liberal arts
institution, ranked #1 Southern
Regional University by U.S. News
& World Report, and hear Rollins
students explain how & why they
chose their majors.*

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DEGREES IN MATH & SCIENCE LEAD TO!

*A guided campus tour of Biology,
Marine Biology, Biochemistry,
Chemistry, Physics, Computer
Science, Mathematics, Business
Management, & Economics. . .
Academic facilities & labs,
designed to help students
process degree & career paths!*

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AN ART & DESIGN INSTITUTION CASE STUDY: RINGLING COLLEGE OF ART & DESIGN

*Experience an Art & Design
institution, including hands on
activities in Virtual Reality, Motion
Design, & Graphic Design. . .
ranked best Animation program in
the world by 3D Magazine.*



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GAME PRODUCTION WORKSHOP

*A workshop designed
for everyone who's ever
dreamed of creating their
own gaming experience!*



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PRACTICE YOUR ESPORTS SKILLS ON CAMPUS!

*Learn all about varsity
intercollegiate competitive
opportunities, scholarships,
and club activities!*



BREAKFASTS, LUNCHES & DINNERS

Dining includes a combination of hotel breakfasts, catered events, select restaurants and campus dining halls. Dietary restrictions addressed!



LODGING

*Space Coast's Hyatt Place
is home to Oceans to
Orbits students.
(Backup hotels include
Marriott, Embassy Suites,
or similar.)*




BUS TRANSFERS

*Our contracted BTM
Motorcoaches are fully
equipped with leading safety
technology and amenities.*



READ WHAT STUDENTS & PARENTS HAVE TO SAY. . .



OCEANS TO ORBITS

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EMILY R., Student

"I definitely wouldn't pass up the trip if it meant I had to finish double the work I missed. This was such an amazing experience. Thank you to all the teachers that made this possible!!!"

DIANNE S., Parent

"The itinerary was incredible. A perfect mix of education and fun and it was extremely well thought out and executed."

TRISTIAN S., Student

"This experience was a once in a lifetime and I am very grateful that I could experience this trip and to develop a better vision and idea of what I want to do with my life."

APRIL K., Parent

"My daughter enjoyed everything and it was her first time showing such enthusiasm for her future. I was jealous that I could not go."