



**Tour:** **SUNSHINE PHYSICS**  
**Destination:** Orlando, Florida  
**Specialization:** Physics, Math & Space Science  
**Itinerary:** 6-days / 5-nights in Florida

SUNSHINE PHYSICS - ORLANDO				
Day	Morning	Afternoon	Evening	
1	Travel to Orlando; transfer to hotel & check-in		Welcome, Safety & Orientation	Local Dinner Mini-Golf Challenge
2	Universal Studios Theme Parks (Islands of Adventure + Universal Studios Theme Parks) + Roller Coaster Physics Master Class & Ride Design / Six Degrees of Freedom Master Class		Dinner at Universal Theme Parks	
3	NASA's Kennedy Space Center at Cape Canaveral - Day Trip		Wonder Works & Pizza Party	
4	Weather Balloon Engineering Master Class - Orlando Science Center	Lunch, Wildlife Park & Airboat Eco-tour at Wild Florida Airboat Tours	I-Fly Physics Master Class with Wind Tunnel Jump	Hotel Dinner
5	Universal Studios Theme Parks (Islands of Adventure + Universal Studios Theme Parks) + 'Behind the Adventure' Walking Tour OR Weather Master Class		Farewell Dinner	
6	Free time in Orlando		Depart for Home	



As with all sample itineraries, please be advised that this is an 'example' of a schedule and that the activities and hotels shown may be variable dependent upon dates, weather, special requests and other factors. Itineraries will be confirmed prior to travel.



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## Day 1

Dinner on arrival, contingent upon arrival time

Travel to Florida arriving at in the late afternoon or early evening. After boarding your coach you will be transferred to your hotel on International Drive. After check-in, we'll have our Welcome, Safety & Orientation meeting and get settled in. This evening we'll have dinner locally and then some fun with a Mini-Golf Challenge!

**Sample Hotel: Springhill Suites, International Drive** - Innovatively designed and ideally located for our groups, this hotel is a great place to relax, refuel and enjoy everything the area has to offer. Located minutes from great dining and attractions, groups will make themselves at home in spacious suites that include two queen beds, a pull-out sofa sleeper, mini-refrigerator, microwave, coffeemaker, complimentary high-speed Internet and more. Hotel amenities include an on-site fitness center, an outdoor heated pool, a business center, and a guest market. Breakfast is served at the hotel each morning.



**Pirates Cove Mini-Golf Challenge** - Plunge into the legendary world of 18th century buccaneers! Putt your way through mountain caves, across a full-scale pirate ship, over footbridges and under cascading waterfalls--all amid a fun-filled atmosphere of meticulously-kept landscaping and enchanting pirate lore.

## Day 2

Breakfast & dinner included; lunch on own

Good morning Orlando! After breakfast, we'll transfer to Universal Studios Theme Parks. We'll have Park Hopper passes to explore both amazing parks – Universal Studios Theme Park and Universal's Islands of Adventure, and ride the Hogwarts Express to get back and forth! Wear your walking shoes!



**Universal Studios Theme Park** - Fun So Hard. It's just like watching your favorite TV shows and movies IRL, except with the ultimate ride-y things like twists, turns and drops. Face villains more menacing than your kids



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pre-churros. Save the earth daily or even hourly. Oh and dragons, have we got dragons! And one of them even breathes real fire so that's cool (err hot). This is way beyond the movies.

**Islands of Adventure Theme Park** - Free Yourself to be Yourself. This is where it goes down. And up. And down again. To those who say "Yay adventure" we're here for you. Superheroes. Magical creatures. A school of witchcraft and wizardry. Even dinosaurs (turns out, not so extinct). Take a ride, multiple rides. Some will drench you. Some will just mess up your hair. Some will make your head spin (figuratively speaking). All of them will say: Every island is a new reality.

While here's we'll participate in **two Master Classes** with the Universal experts!

**Rip Ride Rockit – Roller Coaster Physics Master Class** - Students learn a heart-pounding lesson in physics that teaches just what makes roller coasters like Hollywood Rip Ride Rockit so thrilling. In small groups, students use data they gathered to create a visual representation of the ride's transfer of energy for a more cohesive understanding of physics principles. **Program Objectives:** 1) Explain and apply understanding of potential and kinetic energy. 2) Apply knowledge of the Law of Conservation of Energy to analyze rollercoaster data.



**Transformers ROLL Out – Ride Design & Six Degrees of Freedom Master Class** - Students learn about the engineering principles of the Six Degrees of Freedom and apply that knowledge to a hands-on analysis of TRANSFORMERS: The Ride - 3D. Students then use their new skills to reconstruct the ride vehicle's motion sequences. **Program Objectives:** 1) Explain and model how the Six Degrees of Freedom are used in ride design and development. 2) Differentiate between translational and rotational movement.

Tonight, we'll have dinner at the parks before heading back to our hotel for rest and relaxation.

### Day 3

Breakfast & dinner included; lunch on own

Rise and shine for a spectacular space day! Today we're heading to Cape Canaveral on Florida's eastern coast, home to NASA's Kennedy Space Center.

**NASA's Kennedy Space Center** - John Glenn, Neil Armstrong, Sally Ride and Jim Lovell are just a few names of the brave men and women that have launched into space from Kennedy Space Center, and now it's your turn to become a part of the space program. Your full day of exploration includes real space hardware, authentic attractions, inspiring exhibits and hands-on experiences. The incredible accomplishments of the Apollo moon program return to life in the amazing Apollo/Saturn V Center. In back-to-back IMAX® theatres, you'll feel the thrill of space exploration on five-story screens as you "float" right alongside NASA Astronauts. On guided tours into exclusive areas, you'll get a behind-the-scenes look at Kennedy Space Center's working space flight facilities. Strap in and experience interactive space flight simulators at the Astronaut Hall of Fame. Touch a real piece of Mars, see gigantic rockets, board the Space Shuttle Explorer and much more.



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Your exploration of Kennedy Space Center starts with one of their world-renowned tours, where you depart the Visitor Complex to see awesome NASA facilities, including the massive launch pads, gigantic Vehicle Assembly Building, and exploring the awe-inspiring Apollo/Saturn V Center. There is much to do at the Visitor Complex when you return, from live action theatrical shows like Mad Mission to Mars, to the inspiring Astronaut Encounter briefing with an actual NASA Astronaut - one of the few people on Earth who have been to space. View ten-story high rockets from all eras of space exploration in the Rocket Garden, walk through a full-size Space Shuttle mock-up, see IMAX space films on gigantic five-story screens, and see an actual Gemini program capsule on display in Early Space Exploration.

**IMPORTANT TRANSPORTATION NOTE** – Please be aware that this day includes 10-hours of motorcoach time. As NASA is approximately a 1.5-hour drive from your hotel, the time reserved includes 3 hours of travel time plus 7-hours at NASA. If your school desires more time, we will be happy to book this for you but please be aware that motorcoach time is calculated hourly and you will be responsible for any additional fees incurred.

After our full day at Kennedy Space Center, we'll enjoy a pizza dinner with a comedy show and then have fun at WonderWorks!

**WonderWorks & The Outta Control Magic Comedy Dinner Show** – Wonderworks is an amusement park for the mind, combining education and entertainment in over 100 hands-on exhibits for students of all ages. Students will feel the 65-mph hurricane force winds, be shaken by a 5.3 earthquake, play virtual sports, land the space shuttle, fly a fighter jet, lay on a bed of nails, design and ride their own roller coaster and even compete in a Laser Tag game in the world's largest Laser Tag Arena & Arcade.



Guests will also experience the “Outta Control Comedy/Magic Dinner Show” combining high-energy comedy improvisation with fun “magic” to thoroughly entertain audiences of all ages. During the show, schools will enjoy unlimited hand-tossed pizza, popcorn and soft drinks.

#### Day 4

Breakfast, lunch & dinner included

Good morning Florida! Following breakfast, we'll head to the Orlando Science Center.

**Rise to the Challenge: Weather Balloon Engineering at the Orlando Science Center** - Become an aerospace engineer by experiencing the battle between gravity and buoyancy. By collecting data and calculating the opposing forces, teams create a balanced attachment that will suspend a model weather balloon in the atmosphere.



This afternoon we'll switch gears and head out to explore Wild Florida!



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**Wild Florida** - Located 45-minutes outside of Orlando, a visit into the northern Florida Everglades will be a grand adventure as you experience a part of Florida that hasn't changed much from when early pioneers arrived in covered wagons in the 1800s. Exploring the headwaters of the Everglades and learning about native and exotic animals, students will be able to see wild animals in their native habitat during an airboat tour through the Everglades Headwaters aboard a U.S. Coast Guard certified airboat. They'll see wildlife native to Florida such as alligators, eagles, roseate spoonbills, wild hogs and turkeys, just to name a few. Your captain can help students spot the wildlife found around Lake Cypress, give insight about each species with unique facts. In the Gator Park, they'll be able to see ring-tailed lemurs, two-toed sloths, African crested porcupines, and other exotic animals commonly found around the world. Wild Florida is a feast for the eyes and the soul.



Next, we're off for some physics flying!

**I-Fly Indoor Skydiving & Physics Master Class** - The STEM Master Class uses iFLY's unique vertical wind tunnel facility to make STEM exciting. Curriculum has been designed by STEM professionals and includes an interactive presentation based on engineering and physics, a lab activity including parachute investigation, and full training for indoor skydiving by IBA certified flight instructors. Each student will fly one-on-one with an instructor for 1 minute in the tunnel. High flights, 'rides' to the top of the tunnel and extra rides are available at an additional charge.



This evening, we'll have dinner in our hotel or a local option, dependent upon your lodging facility.

### Day 5

Breakfast & dinner included; lunch on own



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Rise and shine Florida! After breakfast in the hotel, we'll board our transportation and again travel to **Universal Studios Theme Parks**. Today we'll have a choice between various Master Class options (teachers pick **ONE** option prior to travel), followed by a day of fun in the parks. Master Class Options include:

**Kongtrol Panel** - Bring students face-to-face with a sophisticated positioning system that controls an independently navigated ride vehicle through the rough, unpredictable terrain of Skull Island. By programming the ride vehicle commands to avoid collisions, students gain a hands-on understanding of how engineering principles translate into ride success.

**Behind the Adventure at Universal's Islands of Adventure** – Students will have the opportunity to discover the science involved in creating the world's most technologically advanced theme park. Behind-the-Adventure showcases the physics, technology, horticulture and general sciences that went into designing and building this state-of-the-art theme park.

**Special FX at Universal Studios Florida** – A special effects program to discover the secrets of making movie magic at Universal Studios. Through this interactive tour of Universal Studios, students will learn, hands-on, about the arts and sciences used to create some of the most spectacular special effects in motion picture history and what it took to recreate those effects in some of Universal Studios' most popular attractions.

**Our Weather: Planning for Nature** - Meet with and learn from Orlando's own Amy Sweezey. In this unique live presentation, you'll see what goes into understanding weather patterns and the impact they can have on theme park guests.

**Career Exploration & Preparation** - Before students can really focus on a career, they must first discover their natural strengths. This module provides self-assessment tools to define several areas of interest for students, then covers the entire process from application to interview and personal brand to work values.

**Leadership Skills & Personal Development** - Leaders have the ability to influence others within an organization. In this experience, students are asked to take a good look at their own spheres of influence and assess the impact they may potentially make on others. They are provided tools they can use to positively influence their school or work environment and improve their personal people skills.

Afterwards, we'll enjoy our farewell dinner in Orlando.

### Day 6

Breakfast included, based on departure times

Good morning Florida! It's time to pack up and head home! Following breakfast, we'll have the morning free then will start to say goodbye to Florida as we head off for our flight home; taking memories with us that will last forever!



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# SUNSHINE PHYSICS

**Minimum Booking Numbers:**

20 students

**What's Included:**

Round-trip flights with a scheduled carrier  
5-nights' accommodation in Orlando  
Breakfasts & dinners daily starting with dinner on arrival and ending with breakfast on departure, based on travel times  
Transportation for programmed activities & airport transfers  
NASA's Kennedy Space Center & Visitor's Center  
Mini Golf Challenge at Pirate's Cove  
2-day Park Hopper passes to Universal Studios and Islands of Adventure Theme Parks

- Roller Coaster Physics Master Class
- Ride Design Master Class
- Master Class Option (pick one of multiple options)

WonderWorks Admission + Pizza Party at the Outta Control Comedy Dinner Show  
Weather Balloon Engineering Master Class at Orlando Science Center  
Wild Florida Airboat Eco-tour & Lunch  
I-Fly Sky Diving Physics Master Class with Wind Tunnel Jump  
Personal Tour Ambassador  
24-hour emergency cover

**What's Not Included:**

Fully comprehensive insurance (mandatory)  
Baggage costs if domestic flight, pay directly to airline if required  
Baggage handling - each student should be able to carry/load their own suitcase  
Transfers to/from home airport  
Transportation for activities not shown in the itinerary  
Lunches, snacks and beverages other than at meal times (except Day 4)  
Cost of visas, full or collective passports  
Cost of inoculations or medication required for travel  
Sightseeing / Entertainment options not shown in Itinerary  
Hotel incidental deposits & bills – meals, mini-bar items, purchases billed to room, etc.  
Any gratuities – driver(s), hotel services, ambassador  
Credit card fees if individuals wish to pay via credit card instead of ACH (online check)

As always, our staff are always available to you to answer any questions you may have regarding programming. If we may serve you in any way, please do not hesitate to contact us.

