



*Tour:*

## MATH MASTERS

*Destination:*

**Orlando, Florida**

*Specialization:*

Math, Science, Engineering & Physics

*Itinerary:*

7-days / 6-nights in Florida

MATH MASTERS - ORLANDO			
Day	Morning	Afternoon	Evening
1	Travel to Orlando; transfer to hotel & check-in; Welcome & Safety Briefing		Welcome Dinner
2	NASA's Kennedy Space Center at Cape Canaveral		Dinner Locally
3	Universal Studios Theme Parks (Islands of Adventure + Universal Studios Theme Parks) with Park Hopper Pass + Hollywood Rip Ride Rock-it Master Class (Roller Coaster Physics) & Transformers ROLL Out Master Class (Ride Design / Six Degrees of Freedom)		Dinner on Own at Universal Theme Parks
4	Orlando Science Center + Weather Balloon Engineering Master Class	University of Central Florida - Campus Tour	I-Fly Physics Master Class with 1 Jump
5	Wildlife Park & Airboat Eco-tour at Wild Florida Airboat Tours (lunch included)	Volcano Bay Water Park - Universal Studios	Dinner Locally
6	Universal Studios Theme Parks (Islands of Adventure + Universal Studios Theme Parks) with Park Hopper Pass + Kongtrol Panel Master Class (Positioning & Coordinates Systems)		Farewell Dinner & Free Time
7	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 located in the International Drive area. 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

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** - 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.



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



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Building, and exploring the awe-inspiring Apollo/Saturn V Center. Check out 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 have dinner locally. It might be a great night for a walk, or even pool time!

### Day 3

Breakfast included; lunch & dinner on own at Universal

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 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!



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**Rip Ride Rock-it – 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 4

Breakfast & dinner included; lunch on own

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

**The Orlando Science Center & Weather Balloon Engineering Master Class** - Truly one of the great activities in Orlando! With four floors of exhibits, amazing giant screen movies and engaging live programming, this is a wonderful educational destination.

**Rise to the Challenge: Weather Balloon Engineering** - 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. Can your team rise to the challenge?



This afternoon we'll switch gears and head out to the University of Central Florida for a Campus Tour.



**University of Central Florida: Campus Tour** - The University of Central Florida (UCF) is a public research university with its main campus located just northeast of the city of Orlando. With over 70,000 students, it currently has the second-largest student body of any public university in the United States.

UCF was founded in 1963 and opened in 1968 as **Florida Technological University**, with the mission of providing personnel to support the growing U.S. space program at the Kennedy Space Center and Cape Canaveral Space Force Station. As the school's academic scope expanded beyond engineering and technology, Florida



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Tech was renamed the University of Central Florida in 1978. UCF's space roots continue, as it leads the NASA Florida Space Grant Consortium.

## THE POWER OF POTENTIAL

Founded in 1963 to fuel the region's talent pipeline and support the growing U.S. space program, UCF is built to make a better future for our students and society. It's one of the reasons U.S. News & World Report ranks UCF among the nation's **top 20 most innovative colleges**, while *Forbes*, Kiplinger and The Princeton Review rank us a best-value university.

As a leading metropolitan research university in Florida, we are driven to do more and be more. We believe success can only happen when we expand opportunity and demand excellence. We believe if there's a better way, we should do it. We believe innovation comes from the meeting of diverse viewpoints. And when more people unleash their full potential, anything is possible.

**18,000+**

Degrees Conferred Each Year

**4.25**

Average Incoming Freshman GPA

**357**

National Merit Scholars

**20.6%**

Undergraduates are First-generation Students\*

UCF is ranked among the top 15 Most Innovative Universities in the Nation by U.S. News & World Report and UCF researchers attract more than \$200 million a year in grants and awards — driving them to become a top university for producing patents and a powerhouse in scientific advancement.

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 walk to WonderWorks for pizza and an evening of fun!

**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.



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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 5

Breakfast, lunch & dinner included

Hello Orlando! After breakfast this morning we’ll get a chance to get up close and personal with Florida’s top predator – the American Alligator!

**Wild Florida Airboat Tours** - Located 45-minutes outside of Orlando, a visit into the northern Florida Everglades will be wild and fun! Experience a part of Florida that hasn’t changed much from when early pioneers arrived in covered wagons in the 1800s. Climb aboard a U.S. Coast Guard certified airboat and catch a glimpse of alligators, eagles, turkeys, wild boars, roseate spoonbills, and other native creatures. Stroll through the Wildlife Park where you can see lemurs, sloths, zebras, and other animals native to South America, Africa, and Australia. Wild Florida is a feast for the eyes and the soul. **A groud sandwich lunch is included at Wild Florida.**



**Educational Components:** 1) Airboat Eco-Tour: Students will see a variety of animal and plant wildlife identified by airboat captains. Topics covered will include the Florida Ecosystem, native and invasive species, and interdependence attributes. 2) Alligator Presentation: Students will get an up-close look at alligators with an in-depth presentation of topics including lifecycle, diet, anatomy/physiology and behavioral aspects.

Ready to get wet? We’ll change into our swim gear and head for a tropical oasis at Volcano Bay Water Park!

**Volcano Bay Water Park** - A lush, tropical oasis unfolds before you, instantly transporting you to a little-known Pacific isle. In the distance, a colossal volcano rises above a sparkling beach, boasting majestic waterfalls by day and blazing lava by night. Welcome to Universal’s Volcano Bay – a radically-innovative 28 fully-immersive acres water theme park! At Volcano Bay Water Theme Park, guests will discover a place like no other, filled with



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incredible thrills and relaxing indulgences. Enjoy a variety of experiences, ranging from winding rivers and private, two-story cabanas to raft rides and twisting body slides that launch guests above the water.



This evening, we'll have dinner locally and then the evening is ours for fun!

### Day 6

Breakfast & dinner included; lunch on own

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.



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***Our Weather: Planning for Nature*** - Meet with and learn from AN Orlando weather professional. 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 7**

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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# MATH MASTERS

**Minimum Booking Numbers:**

20 students

**What's Included:**

Round-trip flights with a scheduled carrier  
6-nights' accommodation in Orlando  
Breakfasts & dinners daily starting with dinner on arrival and ending with breakfast on departure, based on travel times (with the exception of dinner on day 3)  
1 lunch on Day 5  
Transportation for programmed activities & airport transfers  
NASA's Kennedy Space Center & Visitor's Center  
Mini Golf Challenge at Pirate's Cove  
3-day Park Hopper pass to Universal Studios Theme Park, Islands of Adventure Theme Park and Volcano Bay Theme Park  
Roller Coaster Physics Master Class  
Ride Design Master Class  
Master Class Option (pick one of six options)  
WonderWorks Admission + Pizza Party at the Outta Control Comedy Dinner Show  
Orlando Science Center Admission + Weather Balloon Engineering Master Class  
Wild Florida Airboat Eco-tour + Lunch  
I-Fly Sky Diving Physics Master Class with 1 Jump  
University of Central Florida Campus Tour  
Personal Tour Director  
24-hour emergency cover

**What's Not Included:**

Fully comprehensive insurance (mandatory)  
Dinner on Day 3 (this may be added in if desired)  
Baggage costs, pay directly to airline if required  
Baggage handling - each student should be able to load their own bag  
Lunches, snacks and beverages other than at meal times  
Transfers to/from home airport  
Transportation for activities not shown in the itinerary  
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  
Any gratuities – drivers, hotel services, tour director  
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.



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