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AI & Robotics Winter Camp 2027

Parent Guide

January 4–23, 2027
 Orlando, Florida, USA
 Hosted at a UCF College Campus
 Program Cost: **USD 6,990**

The AI & Robotics Winter Camp at the University of Central Florida invites future-minded high school students to explore technologies reshaping our world. Through a combination of artificial intelligence, robotics, and entrepreneurial thinking, students experience how creativity and emerging technologies can work together to solve real-world challenges. The program is designed to be hands-on, collaborative, engaging, and forward-looking.

How the Program Works

1 Phase 1: Online Foundations Week

- Dates:** January 4–8, 2027
- Format:** Live online sessions, 3 hours daily
- Led by:** UCF professors
- Focus:** Introduction to coding and robotics, programming basics, computational thinking, and core robotics concepts that prepare students for the in-person experience.



2 Phase 2: In-Person Immersion

- Dates:** January 10–23, 2027 (ten instructional days)
- Academic schedule:** 9:00 a.m.–1:00 p.m. daily
- Location:** A UCF College Campus
- Afternoons:** 1:00 p.m.–4:00 p.m. scheduled site visits and cultural activities
- Focus:** Hands-on artificial intelligence, robotics, entrepreneurship, team building, and career exploration.



What Students Will Gain

- Foundational coding skills and computational thinking abilities.
- Practical experience with AI tools, AI agents, prompt engineering, and AI-assisted development.
- Hands-on robotics experience using programmable LEGO systems, Sphero bots, and drones.
- Entrepreneurial, communication, and teamwork skills through a collaborative business pitch.
- Exposure to college life, mentorship, engineering environments, and STEM career pathways.

What Students Will Experience

A 10-day in-person learning experience filled with hands-on projects, real-world exposure, and unforgettable memories.

Day	Theme	Highlights
Day 1	Welcome and AI & Robotics Fundamentals	Orientation, meet your team, explore AI and robotics basics, and kick off hands-on activities.
Day 2	AI and AI Agents in Practice	Discover real-world applications of AI and build simple AI agents.
Day 3	Prompt Engineering	Learn how to write effective prompts and experiment with creative AI tools.
Day 4	Vibe Coding	Bring ideas to life with modern, intuitive coding tools and AI-assisted development.
Day 5	Programmable LEGO Robotics	Build and program LEGO robots to solve challenges.
Day 6	Sphero Bot Challenges	Code Sphero robots and complete exciting team challenges.
Day 7	Robotic Drones	Explore drone technology, learn flight principles, and complete hands-on missions.
Day 8	From Idea to Venture	Use design thinking to turn ideas into real-world solutions and pitch concepts.
Day 9	Career Exploration and Site Visit	Visit a local company or research lab, meet professionals, and learn about STEM careers.
Day 10	Demo Day	Showcase student projects, celebrate achievements, and receive certificates.

Everything Included



Premium accommodations



Three meals a day plus snacks



Transportation to all activities according to schedule



Visits to Orlando theme parks



All learning materials and equipment



Scheduled site visits and cultural activities



English Proficiency Requirement

Students must have sufficient English proficiency to meet the demands of the class and communicate in English throughout the program.

This level will be determined through a Zoom call directly with UCF staff.

Frequently Asked Questions



Who teaches the program?

The program is designed and delivered by UCF professors and experienced educators with expertise in AI, robotics, and STEM education.



Is prior robotics experience required?

No. The program is designed for high school students of all levels. A willingness to learn and an interest in technology are all you need.



What is the final outcome?

Students will complete hands-on projects, gain new skills, and present their creations on Demo Day. All participants receive a certificate of completion.



Where is the in-person phase hosted?

The in-person phase is hosted at a UCF college campus in Orlando, Florida, providing access to world-class facilities and a vibrant student environment.

Contact KEF USA



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USD 6,990