



Greetings,

Thank you for your interest in the FIRST Lego League Florida Sunshine Invitational hosted by Embry-Riddle Aeronautical University and presented by Florida Program Delivery Organizations.

The competition will be held June 19, to June 22, 2024, at Embry-Riddle Aeronautical University 610 Aerospace Blvd. Daytona Beach, FL 32114. This will be an 87-team inaugural event.

Registration Cost:

Registration to participate for a team is \$1,750.00 - this includes the Friday night Team Social, participation trophy, individual medals, FSI shirts for the team, and participation in this world-class event.

Housing Cost:

The cost for food and housing at Embry-Riddle Aeronautical University for teams will be decided in January, but we are anticipating the cost for 10 team members with 2 coaches to be approximately \$2,500 - @\$50 a day per person.

On-campus housing for teams has the option between a standard double room or a triple room. In a standard double room, two students share a room, and two rooms share a bathroom.

Food will be at through ERAU food services, including breakfast and dinner. Low-fat, vegetarian, vegan, and kosher meals are available, and there are a variety of dining plans to fit every team's needs.*

*Allergies and special meals are to be noted during the registration process.

Hotel Cost:

If your team elects to stay off-site, there are hotels in the area for approximately \$140 a night plus tax. There is a Secure Your Lodging button on our website.

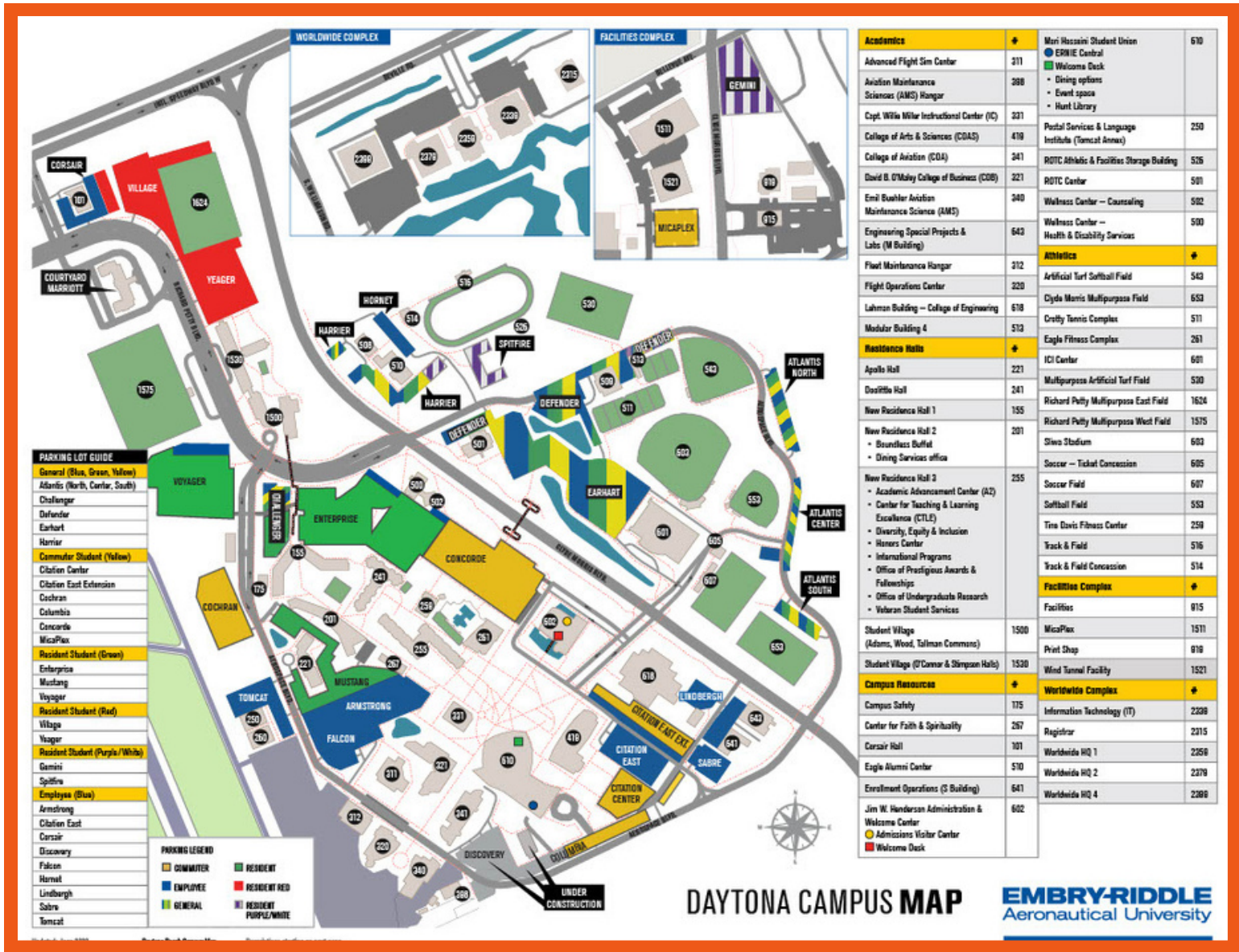
Food Cost for teams not staying on site: two choices

- There is a possibility of paying for food service for an extra cost
- Teams are responsible for their own food

To register for the FIRST LEGO League Florida Sunshine Invitational:

- Fill out the team registration at www.floridasunshineinvitational.com (the website is a 'work in progress') We will verify your bid with your Regional Director and add you to the official roster.
- After receiving your official invitation, then select your payment method on the website and pay the registration fee
 - Credit Card/Debit Card via SQUARE
 - Check -please include your team number and FSI 2024 on the check and send it to Infinity Center of Education 2886 Addison Drive Melbourne, FL 32940
 - Purchasing Order
 - Installment Option

We are working on a variety of extras for our visiting teams: discount tickets to Universal, discount tickets to other Florida destinations, bus transportation to our Team Social, goodie bags from our local sponsors, specialty tours of the Embry-Riddle Aeronautical University on Thursday, a world-class facility, Team Alliance Competition, and more!



General Schedule:

Wednesday, June 19, 2024 Check in at housing at 1:00 pm Teams can set up their Judging Pit at the Student Union and tour the campus from 2:00 to 5:00 pm. Dinner at ERAU at 5:00.

Thursday, June 20, 2024 Opening Ceremonies at 8:30 in front of the Student Union. Breakfast at ERAU 6:00 to 8:30am. Judging at the Engineering Building with organized tours and activities from 9:00 to 4:00 pm. Box Lunches 12:00 to 1:00 at ERAU. Judges will tour the team's pits in the afternoon. Teams will move their robot pits to Fieldhouse at 4:00pm. Dinner at ERAU at 5:00.

Friday, June 21, 2024 Fieldhouse Robot Games Opening Ceremonies at 8:30. Breakfast at ERAU 6:00 to 8:30am. Robot Games 9:00 to 4:00pm. Box Lunches 12:00 to 1:00 at Fieldhouse. 5:00 Dinner at ERAU. 6:00 to 8:00 pm Daytona Waterpark Team Social 601 Earl St, Daytona Beach, FL 32118

Saturday, June 22, 2024 Fieldhouse Robot Alliances Opening Ceremonies at 8:30. Breakfast at ERAU 6:00 to 8:30am. Robot Alliances 9:00 to 12:00. Box Lunches 12:00 to 1:00 at ERAU. (Volunteers ready the Fieldhouse for Closing Ceremonies). Closing Ceremonies at 2:00pm. Teams leave at 4:00pm. Clean up 4:00 to 6:00 Dinner at ERAU for volunteers only.

Contact Stacey Jones if you have any questions at sjones@firstpartners.org

FIRST® LEGO® League Challenge Overview

CORE VALUES

Demonstrate *FIRST*® Core Values in everything you do. Your team will be evaluated during the robot game and the judging session.



Your team will:

- Apply **teamwork** and **discovery** to explore the challenge.
- **Innovate** with new ideas about your robot and project.
- Show how your team and your solutions will have an **impact** and be **inclusive!**
- Celebrate by having **fun** in everything you do!

ROBOT DESIGN

Your team will prepare a short explanation on your robot design, programs, and strategy.



Your team will:

- Identify your mission strategy.
- Design your robot and programs and create an effective plan.
- Create your robot and coding solution.
- Iterate, test, and improve your robot and program.
- Communicate your robot design process and everyone's contributions.

ROBOT GAME

Your team will have three 2.5-minute matches to complete as many missions as possible.



Your team will:

- Build the mission models and follow the field setup to put the models on the mat.
- Review the missions and rules.
- Design and build a robot.
- Explore building and coding skills while practicing with your robot on the mat.
- Compete at an event!

INNOVATION PROJECT

Your team will prepare a live, engaging presentation to explain the work you have done on your innovation project.



Your team will:

- Identify and research a problem to solve.
- Design a new solution or improve an existing one based on your selected idea, brainstorming, and plan.
- Create a model, drawing, or prototype.
- Iterate on your solution by sharing it with others and collecting feedback.
- Communicate your solution's impact.

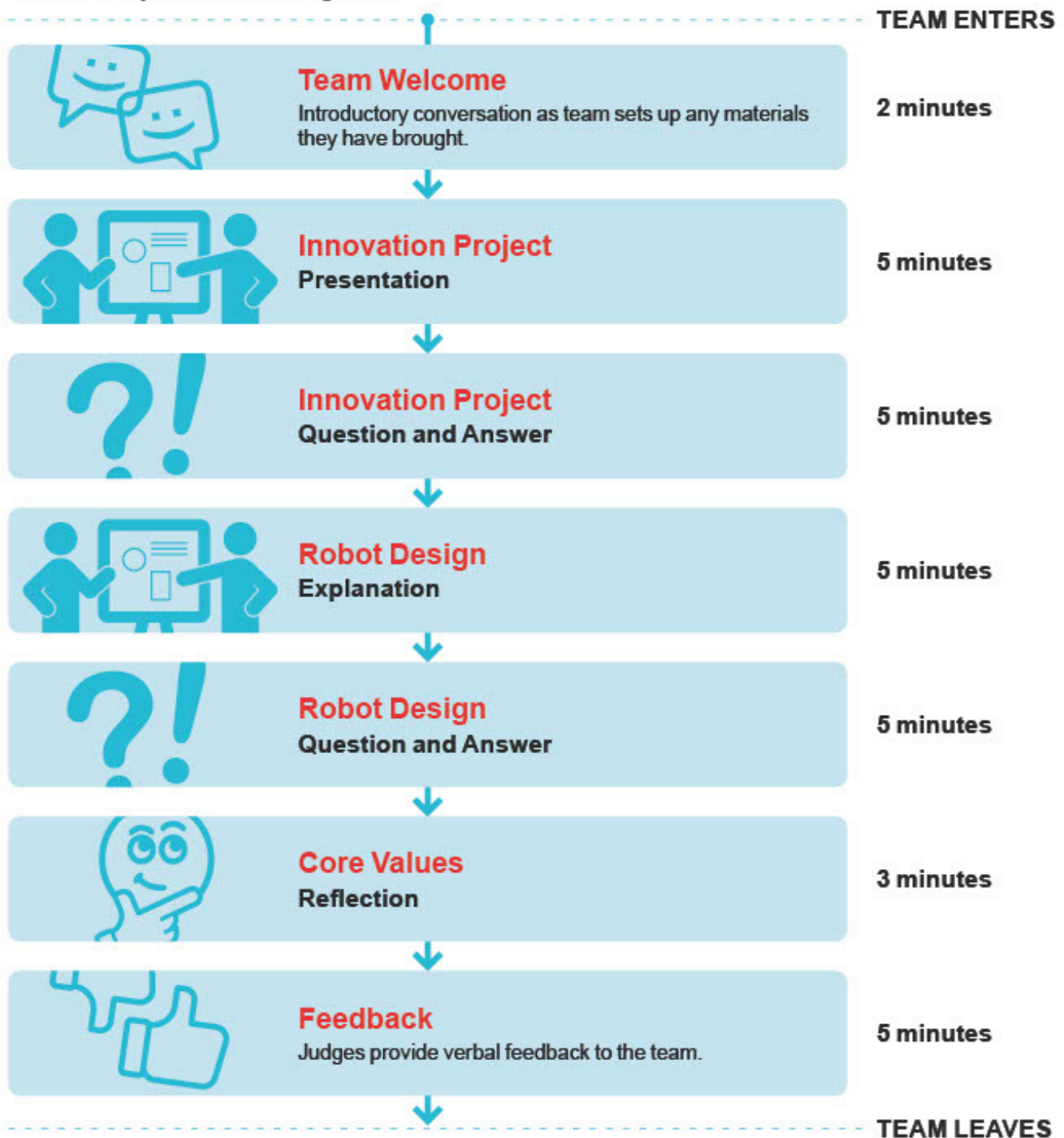
Judging Session Flowchart for Teams

Your team should be demonstrating Core Values in everything you do. The judges are excited to see how you show TEAMWORK, DISCOVERY, INCLUSION, INNOVATION, IMPACT and FUN as you present your Innovation Project and Robot Design work.

This is your time to shine, so enjoy your session with the judges. Tell them everything about your work and remember to take everything with you when you leave.



CHALLENGE



Robot Alliances 9:00 to 12:00 on Saturday, June 22, 2024

Each team will be randomly paired up with an Alliance Partner 6 weeks before FLLFSI. The teams will be responsible for reaching out to their Alliance Partner and working together to play their matches on Saturday.

The rules for the challenge are the same as the robot game with the following exceptions:

- **The two robots in an alliance share the same table.**
- **Each team in the alliance must have constructed and programmed one of the robots in use.**
- **Both robots in an alliance may be on the table at the same time.**
- **Alliances may use storage devices (containers, tables, carts, etc.) as an extension of Home.**
- **Four players from the alliance may be at the table.**
- **The time limit is 90 seconds.**
- **Each alliance can use their hands to move or adjust or relocate one mission model before the game begins.**
- **The Equipment Inspection points are only awarded if all of both teams' equipment can simultaneously fit into the inspection area.**
- **There are no penalties for interrupting a robot, returning equipment to home, or resetting mission models by hand.**
- **An alliance's score is the combination of the points earned by the two robots.**
- **The format of the competition is a double-elimination, knockout tournament.**

