



**Date:** March 12th, 2016

**Time:** Team sign-in will begin at 8:30 AM; event start at 9:00 AM

**Location:** FSWC—Lee

**Fail Fast???**

### The Challenges:

First segment—gliders.  
Second segment—drones.

For the glider segment, you will bring your own glider(s) and rubber band(s) as a power source. Glider challenges are:

- **Accuracy 1**  
(flying through obstacles)
- **Controlled Flight**  
(flying a prescribed arc)
- **\*Sustained Flight**  
Hang Time  
(seconds in the air)  
Distance  
(distance traveled)
- **Accuracy 2**  
(hitting a suspended target)

\* same launch generates data for both scores

For the drone segment, you may either use our drone on an indoor obstacle course or bring your own drone for the outdoor timed circuit race.

# !!! Scores !!!

## What will be here?



- There will be four stations that generate five scores....(your flight for longest hang time will also be scored for longest distance). [Click here to see the score sheet.](#)
- Launchers are equipped to measure angle of launch and length of pull on the rubber band. Practice stations will be available. Click [here](#) for a picture of a launcher that allows you to bring your own rubber band. An alternative launcher that uses a provided propulsion source is presented [here](#). You may choose either option for any of the challenges.
- All gliders must fit completely inside a 50cm x50cm x28 cm box.

## What do you need to do before you arrive?

- Build, test, and bring as many gliders as you want. Be mindful of the three points above; different designs paired with different rubber bands will produce different results. [Challenge specifications are linked here.](#)
- Gliders must be built or assembled from raw materials. If you use pre-fabricated wings, they must be attached to a hand fabricated fuselage. If you have questions about the legality of your design, please send a picture prior to the event day to [bbotts@fsw.edu](mailto:bbotts@fsw.edu).

## What if I want to bring my own drone?

- If you bring your own drone, you will complete a timed circuit under the supervision of Soaring Sky. [Information about drone racing is available from Soaring Sky](#) and questions can be emailed to [contact@soaringsky.net](mailto:contact@soaringsky.net)
- There is a hard ceiling of 40 feet in altitude for all elements of this challenge and Soaring Sky personnel will inspect your drone for safety and your driver will complete a basic take off, hover, land pre-flight safety check.
- Event points will be distributed based on rankings.

## What if I don't own a drone?

- Teams without a drone will compete using provided equipment on an indoor obstacle course.
- Teams will have 2 minutes to complete as many obstacles as possible and earn their associated points. Each driver will complete a basic take off, hover, land pre-flight safety check.
- Event points will be distributed based on rankings.
- [Click here for details.](#)

