**Objectives**
Design, build and fly an RC aircraft with maximum number of passengers and luggage. Eaglenautics focuses on computer-based simulations such as Computational Fluid Dynamics (CFD) and Aircraft Optimization tools to validate the design.

**Current Direction**
- Aero team - Constraint Analysis
- Propulsion team – Building test rig to choose optimal power system
- Structures team – fuselage + payload compartment design

**Expected Outcomes**
The primary goal for ERAU SAE Aero West® team is gain real-life experience in overcoming current aviation industries’ challenges and understand engineering process while working as a group.

**General Requirements**
- Maximum total gross takeoff weight – 55lbs
- Maximum wing span – 6 ft
- Power limit – 1000W
- Power Source - One electric motor and 6 cell Lithium Polymer battery
- Carbon Fiber Propeller
- One electric motor and a 6 cell LiPo battery

**Payload Requirements**
- Dedicated Passenger -Soccer Ball
  - 28” Diameter
  - Average Luggage Weight per passenger: 8 oz. (1/2lb)
- Luggage and Luggage Plates are secured for flight

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