Course Schedule - time reflects 2 on 1 instruction

Day 1

**Learning Objectives:** Students will become familiar with DJI's M210 platform while developing basic UAS controllability skills by performing basic, intermediate and advanced flight maneuvers using both right and left sticks.

9:00 a.m.  
**Ground orientation**
- Part 107 highlights
- Aircraft and personal documents
- Aircraft safety
- Aircraft systems
- DJI Pilot App

11:00 a.m.  
Lunch provided

12:00 p.m.  
Travel to Location and Set Up

1:00 p.m.  
Flight maneuvers
- EP 1 - (2 batteries/student)
  - Basic/intermediate/advanced maneuvers over cones

3:00 p.m.  
EP 2 - (1 battery/student)
  - Basic/intermediate/advanced maneuvers over cones

4:00 p.m.  
EP 3 - Solo
Day 2

Learning Objectives: Students will continue to develop their basic, intermediate and advanced flight maneuvers learned from the previous day's lessons. Students will be introduced to crew/ single pilot resource management. Students will be introduced to techniques in photogrammetry using a UAS for accident scene reconstruction. Students will become familiar with various software apps to assist in the reconstruction process while continuing to develop single/ crew resource management and good aeronautical decision-making skills.

8:00 a.m.  Travel to Location/ set up
9:00 a.m.  EP 5 NIST Buckets
          Single Pilot- Wood Stands (battery 1)
          Crew Resource Management- Bucket Trees (battery 2)
11:00 a.m.  Ground
            Photogrammetry tools for accident scene operations
            Mission planning overview
12:00 p.m.  SAR Discussion, lunch provided
            Autonomous, tactical search walkthroughs
1:00 p.m.   Accident Scene Reconstruction Flights
            Accident scene photogrammetry
            Station rotation- 3D Orbit, 2D grid, 2D double grid
2:00 p.m.   EP 6 (2 batteries)
            Crew Resource Management- Target Identification (battery 1)
            Single Pilot Resource Management- Target Identification (battery 2)
4:00 p.m.   EP 7 Solo (one battery per student)
Day 3

Learning Objectives: Students will continue to develop CRM skills and also conduct search and rescue operations. Students will combine skills learned over the past 3 days using UAS for various scenarios. Students will operate as a team and as a single pilot using the appropriate resource management techniques to successfully complete the objectives outlined by the instructor. Students will become familiar with night flight physiology and overcoming visual illusions during night operations.

Start/End Times Determined by Sunset Time

- One hour: Travel to Location / Setup
- Two hours: SAR/ROS Flights
  - Two flights per person, per crew role
- One and one-half hour: Culminating Event
  - Instructor-provided scenario
- One hour: Dinner (provided)
  - Part 107 vs Public operations, SGI process (during dinner)
- Half hour: Thermal sensor overview
- One hour: Night EP (one flight)
  - One- and one-half hour- SAR Night
  - Pack, Travel to H600