Course Schedule - time reflects 1 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. 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.

9:00 AM  Ground- (PowerPoint)
Part 107 highlights
Aircraft/personal documents
Aircraft safety
Aircraft systems
DJI Pilot App

11:00 AM  Lunch provided

12:00 PM  Travel to location/ Set up

1:00 PM  EP 1 (2 batteries per student)-
Basic/intermediate/advanced maneuvers over cones

2:00 PM  EP 2 (1 battery per student)-
Basic/intermediate/advanced maneuvers over cones

2:00 PM  EP 3 Solo (1 battery per student)

2:30 PM  EP 4 NIST Buckets
Single Pilot- Wood Stands (battery 1)
Crew Resource Management- Bucket Trees (battery 2)

3:30 PM  Ground
Photogrammetry tools for accident scene operations
Mission planning overview

4:30 PM  SAR Discussion
Autonomous, tactical search walkthroughs

5:00 PM  Adjourn
UAS LAW ENFORCEMENT TRAINING

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.

One hour - Travel to Location / Setup
One hour- Accident Scene Reconstruction Flights -
    Accident scene photogrammetry
    Station rotation- 3D Orbit, 2D grid, 2D double grid
One hour- SAR/ROS Flights
    Two flights per person
One hour- EP 5 (2 batteries)-
    Crew Resource Management- Target Identification (battery 1)
    Single Pilot Resource Management- Target Identification (battery 2)
One hour- Culminating Event (2 batteries)-
    Instructor-provided scenario
One hour- Dinner (provided)
    Part 107 vs Public operations, SGI process (during dinner)
Half hour- Thermal sensor overview
Half hour- Night EP (one battery)
One hour- SAR Night (Two batteries)
Pack, Travel to H600