



UAV/UVS CURRICULUM

Drone Pilot Training Intro – Class Schedule

Days 1-2 from 6:00 pm – 10:00 pm (Simulator Flying labs open @ 5:00 pm). Days 3 - 4 from 10am – 2 pm.
All materials will be provided. GET READY TO FLY!

IIA 101

Day 1: Gearing Up: Intro to Flight, Ground School. Understanding your Equipment and the Business opportunities for UAV

The best drone pilots are those who fly safe, know their equipment well, and understand the mechanic of how drones fly. In this section, students will learn the principles behind their craft and its ability to fly through the air as well as the business opportunities for UAV industry as a whole.

- Drone flight demonstration (indoor)
- Flight Dynamics: How Drones fly
- FAA Rules and Safe Flying Rules
- Dangers to look for before flying and while flying (Worn propellers, Solar Flares etc)
- Pre-Flight Check List
- Equipment Purchase consideration. What copters to buy and why?
- The Business opportunities for UAV industry
- How to use Drone as marketing strategy for your Businesses
- Practice to fly with RC flight simulator

Day 2: Setting Up Your Aircraft and Transmitter

Safety come first. In this session, students will learn important safety practices including how to properly calibrate drone compass and bind the transmitter to the aircraft, log your drone flights, equipment maintenance, flight plans, traveling with drone's tips. Every model is a little different. Classroom will do set up with Phantom 3 as demonstration.

- Setting up Aircraft & Transmitter
- How to calibrate drone compass
- Understanding LED sequences
- Log your drone flights
- LiPo battery maintenance & Safety Concern
- Traveling with your UAS/Drone safety and tips
- Practice to fly with RC flight simulator

IIA 410

Day 2-3: Aerial Cinematography & Basic Drone Operations

After students understand the basics and safety of flying they can begin to think about photography and video with their UAV. This section will go over all settings of the camera, basic shot framing, flight maneuvers, and target tracking. The world of cinematography is vast and ever expanding. This section will give you a basic understanding of photography and provide you with the tools to continue to improve on your skills.

- Show examples of amazing aerial shots and why they are amazing (Video)
- Go over camera settings for aerial use. This includes how iso, shutter, and fps works for aerials.
- Explain how the gimbal operates with a second operator and what to do and not to do.
- Introducing DJI Go Apps Setting
- Hand on practice flying the Phantom 3 Professional to perform basic operation such as takeoff, landing, control the aircraft while it is on the air
- Perform a series from basic to challenger flying sequences set by our professional to improve your piloting's skills.
- Open flying session to practice taking picture and filming using drone camera

IIA 501

Day 4: Aerial Cinematography & Advance Drone Operations

Learn shot techniques + maneuvers tip from the Pro. You've already soloed to this point! Now it's time to take the next step and learn to trust your equipment and your eyes. This is where you take flying to a new level. Learn Advance Flying techniques, faster and higher than ever before, learn to work with a 2nd camera operator.

- Learn the most popular and effective aerial filming techniques that will make you a pro in no time
- Advance Flying - Intelligence Flight Modes
- Flying FPV (First Person View)
- Flying with 2nd Camera Operator

- Extreme Flight Maneuvers
- Open flying session to practice taking picture and filming using drone camera with the Inspire Professional and Phantom 3 Professional

