

DRONE (DRO)

DRO 100 - Drone Pilot Ground School (1 Credit)

1 lecture, 1 total contact hours

Provides knowledge about the regulations and procedures governing the legal operation of Small Unmanned Aerial Systems (sUAS) in the United States of America. Course content aligns with knowledge areas in the Federal Aviation Administration's (FAA's) Part 107 airman knowledge test for a Remote Pilot Certificate with a sUAS rating.

DRO 101 - Mastering Drone Flight: Essential Skills and Techniques (3 Credits)

2 lecture, 2 lab, 4 total contact hours

Introduces the fundamentals of flying drones (or Small Uncrewed Aerial Systems, sUAS) with a focus on flight proficiency skills, safety procedures, mission planning best practices, and image acquisition procedures. Fundamental desktop computer skills assumed.

DRO 102 - Drone Data Acquisition and Analysis (3 Credits)

2 lecture, 2 lab, 4 total contact hours

Introduces students to the methods used to capture, process, analyze, and present drone (or Small Uncrewed Aerial Systems, sUAS) data. Includes drone data applications, image and sensor characteristics, mission planning, data acquisition, post processing, and data analysis fundamentals. Fundamental desktop computer skills assumed.
Prerequisite: DRO 101 with a grade of C or better.