NONCREDIT AVIATION

NONCREDIT AVIATION COURSES

NAVI 201 - Orientation to Drones and Unoccupied Aerial Systems (UAS)

0 units

This course introduces students to the fundamentals of drones and Unoccupied Aerial System (UAS) focused on mission planning, basic flight operations and the legal (local, state, and federal) and ethical frameworks in order to safely operate a UAS. It includes a hands-on lab component. 12 hours lecture, 15 hours laboratory.

- Noncredit
- Grading Option: Pass/No Pass

NAVI 202 - Drone Aerial Survey, Photography and Videography

0 units

This course is an introduction to using drones and Unoccupied Aerial Systems (UAS) to capture and process a wide array of remote sensing data and digital imagery. It will cover pre-flight planning, in-flight choreography, and post processing stages. An emphasis is developing post-processing skills for commercial applications with exposure to the craft of report writing, cartography, and desktop stills/video editing. This is a creative starting point to using drones in multiple disciplines and careers. It involves a hands-on laboratory component. 12 hours lecture, 15 hours laboratory.

Recommended Course Preparation: NAVI 201 with a minimum grade of P or GEOG 15 with a minimum grade of C or PHTO 56 with a minimum grade of C or PHTO 58 with a minimum grade of C.

- Noncredit
- Grading Option: Pass/No Pass

NAVI 202A - Drone Photography and Videography

0 units

This course is an introduction to using drones and Unoccupied Aerial Systems (UAS) to capture and process digital imagery. It will cover pre-flight planning, in-flight choreography, and post processing workflows. An emphasis is developing skills for entry-level positions using drones for commercial photography and videography. This is a creative starting point to using drones in multiple disciplines and careers. It involves a structured, exercise based, and hands-on laboratory component. 12 hours lecture, 15 hours laboratory.

Recommended Course Preparation: NAVI 201 with a minimum grade of P or GEOG 15 with a minimum grade of C or PHTO 56 with a minimum grade of C or PHTO 58 with a minimum grade of C.

- Noncredit
- Grading Option: Pass/No Pass

NAVI 202B - Drone Mapping and Survey

0 units

This course introduces students to using drones for mapping and remote sensing applications. It will focus on pre-flight planning, data capture, and post-processing stages of common remote sensing data (RBG, Multispectral, Thermal, and LIDAR). Emphasis is developing post-processing skills for commercial projects with exposure to the craft of report writing, cartography, data interpretation, and presentation. This is a starting point for using drones in multiple and careers trajectories. It involves a structured, exercise based, and hands-on laboratory component. 12 hours lecture, 15 hours laboratory.

Recommended Course Preparation: NAVI 201 with a minimum grade of P or GEOG 15 with a minimum grade of C or PHTO 56 with a minimum grade of C or PHTO 58 with a minimum grade of C.

- Noncredit

- Grading Option: Pass/No Pass

NAVI 203 - FAA Remote Pilot Certificate Exam Preparation

0 units

This course prepares students to pass the FAA Part 107 Remote Pilot Certificate exam. It will focus on the main sections of the exam including: the basic flight operations, the legal and ethical frameworks, safety considerations, airspace classification, operating requirements, flight restrictions and the effects of weather on a drone's performance. 27 hours lecture.

Recommended Course Preparation: NAVI 201 with a minimum grade of C or NAVI 202 with a minimum grade of C.

- Noncredit
- Grading Option: Pass/No Pass

NAVI 210 - Summer Camp Drone Coding and Piloting

0 units

This is a week-long intensive hands-on course designed for high school students. It introduces students to entry-level programming using small drones. Students will learn real-world applications of drones through guided activities, problem-based learning challenges, field trips, and interaction with industry drone professionals. 9 hours lecture, 27 hours laboratory.

- Noncredit
- Grading Option: Pass/No Pass