UAS 215 - COMMERCIAL UAS PHOTOGRAPHY

Course Description

This course provides hands-on experience with UAS systems for photography and videography, guiding students through photo and video projects that apply principles of image acquisition, processing, and production. Through lectures, flight training, and homework, students learn about sUAS features, visual storytelling, processing software, file workflows, project planning, risk assessment, and final production. Group 2 course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Required Prerequisites

UAS 107 and UAS 141

Course Learning Outcomes

Knowledge:

- Students will gain expertise in advanced drone photography and videography techniques, focusing on camera settings, composition, and shot execution. They will enhance their flight skills and coordination through hands-on practice, learning to maneuver drones with precision and adaptability to capture high-quality images and videos.
- In addition to capturing imagery, students will develop proficiency in photo and video editing software, such as Adobe Lightroom and Premiere Pro. They will learn to refine their work to create polished, professional-grade content. This combination of technical and creative skills will prepare students to excel in various industries requiring drone expertise.

Application:

- This technology is applied to real-world scenarios such as landscape photography, event documentation, and video creation, where creative and technical skills converge. Students use drones to create compelling aerial photography and videography products, combining technical precision with artistic vision to produce professional-grade results for various industries.

Integration:

- Integrating UAS photography concepts with scenario-based training allows students to apply theoretical knowledge to practical situations. This connection emphasizes real-world applications such as capturing high-quality imagery, optimizing flight plans, and understanding environmental factors that impact drone operations.

Human Dimension:

- Students will engage in self-reflection to understand their strengths and identify areas for growth as they prepare for success in the UAS industry. They will assess their current skill and knowledge levels, evaluating technical proficiency, problem-solving abilities, and adaptability. This process encourages a deeper awareness of their readiness to meet industry demands.

Caring - Civic Learning:

- It is important to foster a culture of aviation safety and maintaining a positive public perception of the unmanned aircraft industry. Adherence to safety protocols and ethical practices ensures trust and collaboration among stakeholders. Promoting responsible drone use underscores the industry's commitment to public welfare, paving the way for broader acceptance and integration of this transformative technology into everyday life.

Learning How to Learn:

- Students will develop the ability to self-monitor and adapt to changing environments, honing their decision-making skills to solve complex problems effectively. By evaluating situational variables and employing critical thinking, they will learn to adjust strategies and optimize outcomes in dynamic scenarios, a crucial skill in the evolving UAS industry.