Miami Dade College

Course Description

ASC1563 | UAS Applications in Aerial Photography |3.00 credits

Students learn techniques and best practices for capturing aerial images using unmanned aerial systems. The course covers camera operation, flight planning for photography missions, image processing, and practical applications in various industries.

Course Competencies

Competency 1: The student will master aerial imaging techniques by:

1. Operating UAV-mounted cameras
2. Adjusting camera settings for optimal results
3. Capturing images under varying environmental conditions

Competency 2: The student will plan photography missions by:

1. Mapping flight paths for image coverage
2. Selecting appropriate UAV platforms for tasks
3. Scheduling flights based on weather and lighting

Competency 3: The student will process and analyze imagery by:

1. Editing and enhancing aerial photographs
2. Stitching images for panoramic views
3. Interpreting image data for industry applications

Competency 4: The student will apply best practices by:

1. Following legal and ethical guidelines for aerial photography
2. Documenting mission objectives and outcomes
3. Reviewing case studies of UAV use in photography

Learning Outcomes

- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information