



COURSE OUTLINE : PHOTO 136
D Credit – Degree Applicable
COURSE ID 010534
Created: May 2020

COURSE DISCIPLINE : PHOTO
COURSE NUMBER : 136
COURSE TITLE (FULL) : Drone Photography and Videography
COURSE TITLE (SHORT) : Drone Photo and Video

CATALOG DESCRIPTION

PHOTO 136 provides students with hands-on experience creating still and moving images using drones. Emphasis is placed planning and executing flight plans to support camera-based capture systems on unmanned aerial vehicles (UAV).

CATALOG NOTES

Note: Students seeking employment in drone operation should enroll in AT-152, Intro to Unmanned Aircraft Vehicles, to prepare for the Federal Aviation Authority (FAA) Remote Pilot License.

Total Lecture Units: 1.00

Total Laboratory Units: 1.00

Total Course Units: 2.00

Total Lecture Hours: 18.00

Total Laboratory Hours: 54.00

Total Laboratory Hours To Be Arranged: 0.00

Total Contact Hours: 72.00

Total Out-of-Class Hours: 36.00

Recommended Corequisite: AT152.



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ENTRY STANDARDS

	Subject	Number	Title	Description	Include
1				identify and use basic digital camera features;	Yes
2				use light meters and demonstrate exposure control methods;	Yes
3				identify characteristics of light;	Yes
4				identify basic characteristics of digital files and printing;	Yes
5				define and analyze technical and composition effects on image.	Yes

EXIT STANDARDS

- 1 Organize and prepare for an aerial shoot;
- 2 analyze drone images and footage for technical and creative quality.

STUDENT LEARNING OUTCOMES

- 1 create and safely execute an aerial shoot using a drone;
- 2 create a technically and visually cohesive project using aerial stills and videos.

COURSE CONTENT WITH INSTRUCTIONAL HOURS

	Description	Lecture	Lab	Total Hours
1	History of Aerial Image Capture Systems	4.5	0	4.5
2	Current Technologies and Equipment <ul style="list-style-type: none"> • Characteristics of contemporary aerial camera systems • Equipment requirements and selection • Uses of aerial imagery in commercial and creative settings 	9	0	9
3	Safe and Legal Operation of Drones and Aerial Image Capture Systems	4.5	0	4.5
4	Drone Flight and Image Capture <ul style="list-style-type: none"> • Creating and executing flight plansa. <ul style="list-style-type: none"> ◦ Identifying locationsb. ◦ Constructing an aerial shooting sequence • Flying to support technical and creative imagerya. <ul style="list-style-type: none"> ◦ Weather and lightingb. ◦ Solo flight and camera operationc. ◦ Team flight and camera operation • Processing, editing, and presenting drone imagery 	0	54	54
				72



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OUT OF CLASS ASSIGNMENTS

- 1 planning and preparing flight plans (e.g. student will prepare written flight plans for specific locations).
- 2 individual and team aerial shooting projects to develop creative and technical skills (e.g. student will shoot subjects related to the target area).

METHODS OF EVALUATION

- 1 evaluation of flight plans
- 2 individual and group critiques of work and final project.

METHODS OF INSTRUCTION

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial
- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

TEXTBOOKS

Title	Type	Publisher	Edition	Medium	Author	ISBN	Date
Aerial Photography and Videography Using Drones	Required	Peachpit Press	1	print	Cheng, Eric	978-0134122779	2016