PHOTO136: Drone Photography

General Information

Author: • David Yamamoto

Course Code (CB01): PHOTO136

Course Title (CB02): Drone Photography

Department: PHOTO
Proposal Start: Spring 2025

TOP Code (CB03): (1012.00) Applied Photography

CIP Code: (10.0201) Photographic and Film/Video Technology/Technician.

SAM Code (CB09): Clearly Occupational

Distance Education Approved: No
Will this course be taught No

asynchronously?:

nt

Course Control Number (CB00): CCC000619248

Curriculum Committee Approval Date: 05/22/2024

Board of Trustees Approval Date: 07/16/2024

Last Cyclical Review Date: 05/22/2024

Course Description and Course Note: PHOTO 136 provides students with hands-on experience creating still images using drones.

Emphasis is placed on planning and executing flight plans to support camera-based capture systems on unmanned aerial vehicles (UAV). 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.

Justification: Mandatory Revision

Academic Career: • Credit

Mode of Delivery:

Author:

Course Family:

Academic Senate Discipline

Primary Discipline: • Photographic Technology/ Commercial Photography

Alternate Discipline: • Photography

Alternate Discipline: No value

Course Development		
Basic Skill Status (CB08) Course is not a basic skills course. Allow Students to Gain Credit by Exam/Challenge	Course Special Class Status (CB13) Course is not a special class. Pre-Collegiate Level (CB21) Not applicable.	 Grading Basis Grade with Pass / No-Pass Option Course Support Course Status (CB26) Course is not a support course
General Education and C-ID		
General Education Status (CB25) Not Applicable Transferability	Transferability	Status

Transferability		Transferability Status			
Transferable to CSU only		Approved			
Units and Hours					
Summary					
Minimum Credit Units (CB07)	2				
Maximum Credit Units (CB06)	2				
Total Course In-Class (Contact) Hours	72				
Total Course Out-of-Class Hours	36				
Total Student Learning Hours	108				
Credit / Non-Credit	Options				
Course Type (CB04)		Noncredit Course C	Category (CB22)	Noncredit Special Characteristics	
Credit - Degree Applicable		Credit Course.		No Value	
Course Classification Code	(CB11)	Funding Agency Ca	tegory (CB23)	Cooperative Work Experience	
Credit Course.				Education Status (CB10)	
Variable Credit Course					
Weekly Student Ho	urs		Course Studer	it Hours	
In	Class	Out of Class	Course Duration	(Weeks) 18	
Lecture Hours 1		2	Hours per unit di	visor 0	

Course In-Class (Contact) Hours

Lecture

Studio

Laboratory

18

54 0

3

0

Laboratory Hours

Studio Hours

0

0

Lecture	36			
Laboratory	0			
Studio	0			
Total	36			
Time Commitment Notes	s for Students			
No value				
Units and Hours - Weekl	y Specialty Hours			
Activity Name	Туре	In Class	Out of Class	
No Value	No Value	No Value	No Value	
Pre-requisites, Co-requi	sites, Anti-requisites a	nd Advisories		
Advisory AT152 - Introduction to Ur	nmanned Aerial Vehicles (in-development)		
Entry Standards				
Entry Standards				
Identify and use basic digital came	era features.			
Use light meters and demonstrate	exposure control methods.			
Identify characteristics of light.				
Identify basic characteristics of dig	gital files and printing.			
Define and analyze technical and o	composition effects on image.			

Total

Course Out-of-Class Hours

72

Course Limitations
Cross Listed or Equivalent Course
Specifications

Specifications	
Methods of Instruction Methods of Instruction	Lecture
Methods of Instruction	Laboratory
Methods of Instruction	Discussion
Methods of Instruction	Multimedia
Methods of Instruction	Tutorial
Methods of Instruction	Independent Study
Methods of Instruction	Collaborative Learning
Methods of Instruction	Demonstrations
Methods of Instruction	Field Activities (Trips)
Out of Class Assignments	

Out of Class Assignments

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

Mothode	of Evaluation	
MEHICOS	OI EVAIUATION	

	ortfolio				
Textboo	k Rationale				
This is an	industry standard text t	for drone photography			
Textboo	ks				
Author		Title	Publisher	Date	ISBN
Cheng, E	ric	Aerial Photography and Videography Using Drones	Peachpit Press	2016	978-0134122779
Other In	structional Materials	(i.e. OER, handouts)			
No Value					
Material	ls Fee				
No value					
l parni	ina Outoomoo or				
<u> </u>	ing Outcomes ar	nd Objectives			
		nd Objectives			
	Objectives	nd Objectives			
Course (
Course (Objectives and prepare for an aeri				
Course (Objectives and prepare for an aeri	al shoot.			
Organize Analyze of	Objectives and prepare for an aeri	al shoot.		Ехр	ected Outcome Performance: 70.0
Organize Analyze of SLOs Create ar ILOs Core	Objectives and prepare for an aeri drone images and footage and safely execute an aeri	al shoot. ge for technical and creative quality.			
Organize Analyze of SLOs Create ar	Objectives and prepare for an aeri drone images and footage and safely execute an aeri Analyze and solve pro cultivate creativity that	al shoot. ge for technical and creative quality. rial shoot using a drone. blems using critical, logical, and creative t leads to innovative ideas.	thinking; ask questions, pu	rsue a line of inquiry, a	and derive conclusions;
Organize Analyze of SLOs Create ar ILOs Core ILOs	objectives and prepare for an aericle drone images and footage and safely execute an aericle depth of methodologies to solve	al shoot. ge for technical and creative quality. rial shoot using a drone. blems using critical, logical, and creative t leads to innovative ideas.	thinking; ask questions, pu cation by applying practical	rsue a line of inquiry, a	and derive conclusions;
Organize Analyze of SLOs Create ar ILOs Core ILOs	objectives and prepare for an aericle drone images and footage and safely execute an aericle drone images and footage Analyze and solve procultivate creativity that the depth of methodologies to solve technically and visually and visually and solve procure and	al shoot. ge for technical and creative quality. rial shoot using a drone. blems using critical, logical, and creative t leads to innovative ideas. knowledge in a course, discipline, or vore unique problems.	thinking; ask questions, pu cation by applying practical and videos.	rsue a line of inquiry, a knowledge, skills, abi Expo	and derive conclusions; lities, theories, or ected Outcome Performance: 70.0

Evaluation of flight plans

Project/Portfolio

Does this proposal include revisions that might improve student attainment of course learning outcomes? No Is this proposal submitted in response to learning outcomes assessment data? No If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes. No Value SLO Evidence No Value

Course Content

Lecture Content

History of Aerial Image Capture Systems (4.5 Hours)

Current Technologies and Equipment (9 Hours)

- Characteristics of contemporary aerial camera systems
- Equipment requirements and selection
- Uses of aerial imagery in commercial and creative settings

Safe and Legal Operation of Drones and Aerial Image Capture Systems (4.5 Hours)

Total Hours: 18

Laboratory/Studio Content

Drone Flight and Image Capture (54 Hours)

- Creating and executing flight plans
 - Identifying locations
 - o Constructing an aerial shooting sequence
- · Flying to support technical and creative imagery
 - Weather and lighting
 - Solo flight and camera operation
 - Team flight and camera operation
- Processing, editing, and presenting drone imagery

Total Hours: 54

Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

No

GCC Major Requirements

No Value

GCC General Education Graduation Requirements

Not Repeatable
Justification (if repeatable was chosen above) No Value
Resources
Did you contact your departmental library liaison? No
If yes, who is your departmental library liason? No Value
Did you contact the DEIA liaison? No
Were there any DEIA changes made to this outline? No
If yes, in what areas were these changes made: No Value
Will any additional resources be needed for this course? (Click all that apply) • No
If additional resources are needed, add a brief description and cost in the box provided. No Value

No Value

Repeatability