Course Number 96250 - Fall 2022

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Univ. of Wisconsin-Milwaukee - Cartography and GIS Cente



Drone Mapping

Instructor: Su Zhang, Ph.D., GISP, CMS-RS, RPC

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Objectives

Regulatory and legal context for UAS operation in the national airspace, FAA Part 107 Exam preparation, introduction to the principles and concepts of crew resource management (CRM), flight plan design, field data collection, and process collected aerial images to derive useful geospatial information.

Prerequisite: Basic Understanding of GIS

Text Book

None. All course materials will be provided online or through email.

Additional Readings: https://www.faa.gov/uas

Course Outline

Day 1 (11/1): UAS Basics

Day 2 (11/3): General Regulatory Requirements and Operating

Rules; Remote Pilot Certification; FAA Wavier Policy and Requirements; Operating Over People; Remote ID

Day 3 (11/8): Sectional Charts; Airspace Classification; Airspace

Operational Requirements; Weather

Day 4 (11/10): Radio Communication Procedures; Airport

Operations; Emergency Procedures; Maintenance and Inspection

Procedures; Flight Path Design

Day 5 (11/12): Field Data Collection/Crew Resource Management

Day 6 (11/15): Aerial Data Processing – Principles and Theories

Day 7 (11/17): Aerial Data Processing – Practices

Day 8 (11/19): Field Data Collection/Crew Resource Management

Class Hours

Tuesdays & Thursdays

6:00 pm - 8:00 pm

Online: Zoom Meeting

Saturdays

10:00 am - 12:00 pm

In-Person: Field Trip

UNM Continuing Education GIS Program

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