Course Number 96250 - Fall 2024

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Univ. of Wisconsin-Milwaukee - Cartography and GIS Cente



Drone Mapping

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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.

Preferred 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: UAS Basics

Day 2: General Regulatory Requirements and Operating Rules; Remote Pilot Certification; FAA Wavier Policy and Requirements; Operating Over People; Remote ID

Day 3: Sectional Charts; Airspace Classification; Airspace Operational Requirements; Weather

Day 4: Radio Communication Procedures; Airport Operations; Emergency Procedures; Maintenance and Inspection Procedures; Flight Path Design

Day 5: Crew Resource Management

Day 6: TBD Field Data Collection

Day 7: Aerial Data Processing – Principles and Theories

Day 8: Aerial Data Processing – Practices

Class Hours

Mondays & Wednesday

6:00 pm - 8:00 pm

Online: Zoom Meeting

Saturdays

8:30 am - 10:30 am

In-Person: Field Trip

UNM Continuing Education GIS Program

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