

# Drone & UAV Undergraduate Courses

Organization: University of Maryland Global Campus

Undergraduate Course Development

Role: Course Co-Creator / Instructional Designer

## Overview

UMGC sought to develop foundational undergraduate courses introducing drone and UAV technology, safety, and regulatory frameworks. The goal was to equip students with practical skills, legal knowledge, and safe operational practices, preparing them for careers in aerospace, logistics, and technology fields.

## Approach

- Co-created course structure covering drone technology, aviation safety, and legal considerations for undergraduate learners.
- Developed clear, accessible content to demystify UAV concepts and operational standards.
- Integrated practical exercises, simulations, and case studies to reinforce applied learning.
- Ensured alignment with FAA guidelines and industry best practices for safety and compliance.
- Applied principles of adult and experiential learning to maximize engagement and knowledge retention.

## Outcome

The courses launched successfully and provided students with hands-on experience, legal literacy, and operational competence in drone technology. They supported career readiness in emerging UAV-related

## Skills Used

• Instructional Design • Curriculum Development • UAV & Drone Technology • Aviation Safety • Regulatory Compliance • Experiential Learning

## Contact



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