

CCET 3790 - Drone Use in Engineering Technology

Fall 2026 Syllabus, Section 01, CRN 43949,

Credit hours: 3

Instructor

Joe Sanson

Associate Professor

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Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications: Masters of Science in Civil Engineering- Youngstown State University-2013

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Course Description

3790. Drone Use in Engineering Technology. Drone uses in engineering technology and industry. Extensive applications of drone use in CCET, EET and MET. As part of this course students will learn regulations and air space requirements, unmanned aircraft procedures, emergency operations and drone safety and maintenance. This course will prepare you for the FAA Part 107 certification exam. Must be enrolled in a Engineering Technology program and Junior standing or consent of instructor. 3 s.h.

Course Readings

Group	Title	Author	ISBN
No Readings			

All required information required by the students will be accessed through the Blackboard Course Page.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Introduction & Overview, Drone uses in Civil, Mechanical, and Electrical Engineering.	
8/31	Introduction & Overview, Drone uses in Civil, Mechanical, and Electrical Engineering.	
9/7	Introduction to the FAA Part 107 Exam and License updat	
9/14	Exam #1	
9/21	Applicable Regulations and Airspace Requirements.	
9/28	Applicable Regulations and Airspace Requirements.	
10/5	Aviation Weather Sources, Effects of Weather on Small Unmanned Aircraft Performance.	
10/12	Small Unmanned Aircraft Loading.	
10/19	Emergency Procedures, Crew Resource Management, Radio Communication Procedures	
10/26	Exam #2	
11/2	Determining the Performance of small Unmanned Aircraft, Physiological Factors	

11/9	Determining the Performance of small Unmanned Aircraft, Physiological Factors
11/16	Aeronautical Decision Making and Judgement, Airport Operations.
11/23	Aeronautical Decision Making and Judgement, Airport Operations.
11/30	Maintenance and Preflight Inspection Procedures.
12/7	Maintenance and Preflight Inspection Procedures. Final Exam Review.

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.