Warren County Community College

BUS 271 Remote Pilot Operations
Course Master Syllabus

Course Information

Catalog Description: Offers in-depth preparation for students to take the FAA Remote Pilot Aeronautical Knowledge test. Topics will include regulations, airspace and requirements, weather, loading and performance, and small unmanned aircraft operations. Students acquire actual experience of operating in the National Airspace System (NAS) through a series of unmanned flights at the Smith Droneport. Fee required for unmanned flight experience at Edward & Eileen Smith Droneport. FAA Remote Pilot Certificate must be completed at student expense.

Prerequisite(s): None

Corequisite(s): None

Credits: 3

Hours: 3

Required Text(s): ASA. (2024). Remote Pilot Test Prep 2025-2026. Aviation Supplies & Academies, Inc.

Note: Fee required to cover the cost for the FAA Part 107 Remote Pilot Knowledge Exam, to be given at an FAA drone pilot testing center (typically $150)

Supplemental Materials:

- This YouTube link will guide you through the course, and contains the course lectures that support UAS 105
- Remote Pilot – Small Unmanned Aircraft Systems Study Guide
- Airman Knowledge Testing Supplement for Sport Pilot, Recreational Pilot, and Private Pilot
- The 13 Most-Missed Part 107 Test Prep Questions
- First Time Test Taker Study Guide
- FAA Aeronautical Chart User's Guide

Instructor Information

Instructor's Name:

Contact Information:

Office Hours:

Program Goals

1. Describe the structure, functions, and processes of the criminal justice system, including law enforcement, courts, and corrections.
2. Analyze legal principles, constitutional rights, and ethical considerations in criminal justice practices.
3. Apply knowledge of criminal law, due process, and legal procedures in the investigation and prosecution of crimes.
4. Evaluate criminological theories and their application to crime prevention, policing strategies, and rehabilitation efforts.
5. Examine correctional policies, rehabilitation programs, and alternatives to incarceration, considering their impact on individuals and society.
6. Assess modern policing strategies, investigative techniques, and community-based approaches to maintaining public safety.
7. Utilize research methods and data analysis techniques to examine crime trends, policy effectiveness, and criminal behavior.
8. Analyze contemporary issues in criminal justice and propose evidence-based policy recommendations.

Class Core Competencies

The following core competencies are embedded in this curriculum:

- Communicate effectively in both speech and writing
- Use social sciences theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens
- Understand ethical issues and situations
- Address and information need by locating, evaluating, and effectively using information.

Class Learning Assessment

Student Learning Outcomes	Suggested Means of Assessment
Describe basic weather theory, identify sources of weather information, analyze weather factors, hazards and conditions.	ASA Practice Test
Demonstrate understanding of airspace classification, operating requirements, and flight restrictions	ASA Practice Test
Demonstrate knowledge of small unmanned aircraft loading and performance	ASA Practice Test
Demonstrate knowledge of crew resource management and aeronautical decision-making and judgment	ASA Practice Test
Demonstrate knowledge of radio communication procedures and airport operations	ASA Practice Test
Demonstrate understanding of emergency procedures and maintenance and preflight inspection procedures	Local Cumulative Test/Presentations
Demonstrate mastery of the FAA Part 107 Test	Score 80% or above on the FAA Remote Pilot Exam

Grading System

Letter Grade	Percentage Range
A	90 to 100 percent
B Plus (B+)	87 to 89.9 percent
B	80 to 86.9 percent
C Plus (C+)	77 to 79.9 percent
C	70 to 76.9 percent
D	60 to 69.9 percent
F	Below 60 percent

College Information

Disability Services
Disability Services Webpage

Statement and Policy on Cheating, Plagiarism, and Academic Conduct
Academic Conduct Policy (Policy 304) [PDF]

Students are required to perform all the work specified by the instructor and are responsible for the content and integrity of all academic work submitted. A violation of academic integrity will occur if a student: (1) knowingly represents work of others as one's own, (2) uses or obtains unauthorized assistance in any academic work, (3) gives fraudulent assistance to another student, or (4) furnishes false information or other misuse of college documents.

Unauthorized use of Artificial Intelligence (AI) is prohibited unless the instructor explicitly permits it in the syllabus or assignments. If tools such as ChatGPT are permitted by an instructor to be used for an assignment, they should be used with caution and with proper citation. In all such cases, you may only use the specific tools identified as acceptable and you must adhere to the College's standards for attribution, validation, and transparency.

In cases of suspected violation of academic integrity, the incident is to be reported to the Office of Academics. A student found guilty of violating the rule of academic integrity by the Vice President of Academics will be considered to have failed in personal obligation to the College; such failure will be subject to disciplinary action by the College. Unless otherwise notified, the instructor will allow students who are pending disciplinary action to attend class.

Tutoring and Testing at the Instructional Support Center (ISC)
- Instructional Support Center (ISC) Webpage

WCCC Library Services
- WCCC Library Website

Citation Styles and Formatting

Work submitted for any Warren County Community College course must conform to the required formatting and citation style that are specified by the instructor. The Library and Instructional Support Center can assist students with formatting and citations for assignments and papers.

WCCC Attendance Expectations

The College expects students to attend and participate in all classes. This involves sharing discussions and lectures in class, as well as interacting with other students. Grades are based on the quality of work students complete in meeting the requirements for a particular course, as stated in the course syllabus and catalog description. Attendance, among other factors, may be an additional criterion for assigning grades. Students should realize that they are responsible for all class meetings and that work missed because of absences may affect their grades. Attendance in online classes is determined by the completion of assignments/ tests. Students who have not completed any assignments or tests will be considered non-attending and receive an NF grade in online classes.

Class Attendance Expectations

Topical Outline

- Applicable regulations relating to small unmanned aircraft system rating privileges, limitations, and flight operation
- Airspace classification, operating requirements, and flight restrictions affecting small unmanned aircraft operation
- Aviation weather sources and effects of weather on small unmanned aircraft performance
- Small unmanned aircraft loading
- Emergency procedures
- Crew resource management
- Radio communication procedures
- Determining the performance of small unmanned aircraft
- Physiological effects of drugs and alcohol
- Aeronautical decision-making and judgment
- Airport operations
- Maintenance and preflight inspection procedures

Grading Methods

Assignment	Points/Percentage

Assignment	Points/Percentage

Class Itinerary

Week / Unit	Topic	Readings/Assignments