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):

COREQUISITE(S):

CREDITS:	3	**HOURS**:	3

REQUIRED TEXT(S):   Spanitz, J., & Ison, D. (2019). *Test prep 2020: Remote pilot*. Aviation Supplies & Academies, Inc.

https://www.asa2fly.com/Test-Prep-2020-Bundle-Remote-Pilot-P4126C738.aspx

ISBN: ISBN-10: 1619547961; ISBN-13: 978-1619547964

** 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:

****Important****

*This link will guide you through the course, and contains the course lectures that support UAS 105
https://www.youtube.com/playlist?list=PLy-BJtqu0osTCaVz5MLjaE8k24Uq0A1BA

Remote Pilot – Small Unmanned Aircraft Systems Study Guide --
https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/media/remote_pilot_study_guide.pdf

Airman Knowledge Testing Supplement for Sport Pilot,
Recreational Pilot, and Private Pilot
https://www.faa.gov/training_testing/testing/supplements/media/sport_rec_private_akts.pdf

The 13 Most-Missed Part 107 Test Prep Questions
https://www.dronepilotgroundschool.com/missed-part-107-test-prep-questions/

First Time Test Taker Study Guide
https://jrupprechtlaw.com/part-107-test-study-guide#first

FAA Aeronautical Chart User's Guide

https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/aero_guide/media/editions/cug-complete.pdf

https://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/aero_guide/

INSTRUCTOR INFORMATION:

OFFICE HOURS:

CORE COMPETENCIES: The following core competencies are embedded in this curriculum: Communicate effectively in both speech and writing; Apply appropriate mathematical and statistical concepts and operations to interpret data to solve problems; Use computer systems or other appropriate forms of technology to achieve educational and personal goals.

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:		C+	=	77 < 80
A	=	90 < 100	C	=	70 < 77
B+	=	87 < 90	D	=	60< 70
B	=	80 < 87	F	=	Below 60

DISABILITY SERVICES STATEMENT: Warren County Community College is committed to providing all students equal access to learning opportunities. Student Services is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students who have, or think they may have, a disability (e.g. mental health, learning, vision, hearing, physical or systemic), are invited to contact Student Services to arrange a confidential discussion at (908) 835-2300 or by email at StudentServices@warren.edu as soon as possible. Students registered for Disability Services with Student Services, who have requested accommodations for the current semester will be provided with an electronic letter detailing individual accommodations and are encouraged to contact the instructor early in the semester to discuss accommodations outlined in their letter.

INSTRUCTIONAL SUPPORT CENTER: The Instructional Support Center (ISC), located in Room 105 across from the library, provides academic support at no cost to WCCC students and is available for courses in which they are currently enrolled. The ISC is staffed with trained professional and peer tutors who are ready to help you understand and succeed. For scheduling or further information, visit the ISC in person, online at http://www.warren.edu/tutoring/ or by telephone at (908)835-2354.

STATEMENT AND POLICY ON CHEATING, PLAGIARISM AND ACADEMIC DISHONESTY: 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.

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.

REQUIRED FORMAT FOR RESEARCH PAPERS: Research papers written for any Warren County Community College class must conform to the required documentation style.

Papers written for humanities (and some social science) classes will follow the most recent edition of the Modern Language Association (MLA) in-text citation and bibliographic methods. Social science and science papers will require the use of the most recent edition of the American Psychological Association (APA) in-text citation and bibliographic methods.

Please consult with your instructor regarding the correct documentation style to use in his/her class.

ATTENDANCE POLICY: Students are expected to attend all class sessions of courses in which they are enrolled and are responsible for all material presented in class and all homework assignments.

Grades are based on the quality of work completed in meeting the requirements for a particular course, as stated in the course syllabus and catalog description.

Excessive absence may be considered sufficient cause for dismissal from class by an instructor or other appropriate college staff member. Any decision to exclude a student from class or the College due to excessive absence shall be subject to review by the President in accordance with established procedures. Students who have not attended class are not entitled to a refund of tuition.

WCCC HAYTAIAN & MAIER LIBRARY

Text: 908-652-4445   Email: lstoll@warren.edu

http://warren.libguides.com

Please see the library's website above for current semester hours.

The WCCC Library offers a wide range of services to students specific to the information literacy goals of the College which includes suggesting research strategies, facilitating the use of both digital and print resources, as well as assisting students with citations to avoid plagiarism.

The library also serves as the College's computer space, with computers for students to use when the library is open. Students also have free, unlimited printing from the College's computers, as well as space to study.

The library is where students can get their college student ID cards. All students are required to get a student ID card and carry it while on campus for security purposes. To get a student ID card, you must bring another form of ID to the library. You may also be asked to bring a printed copy of your current class schedule. You can get a student ID card any time that the library is open. These cards do not expire and can be used for your duration at WCCC.

Additionally, the library participates in a national inter-library loan program which is available free to all students and faculty. You can submit ILL requests by emailing the librarian or by stopping by the library's circulation desk.

TOPICAL OUTLINE:

1. Applicable regulations relating to small unmanned aircraft system rating privileges, limitations, and flight operation;
2. Airspace classification, operating requirements, and flight restrictions affecting small unmanned aircraft operation;
3. Aviation weather sources and effects of weather on small unmanned aircraft performance;
4. Small unmanned aircraft loading;
5. Emergency procedures;
6. Crew resource management;
7. Radio communication procedures;
8. Determining the performance of small unmanned aircraft;
9. Physiological effects of drugs and alcohol;
10. Aeronautical decision-making and judgment;
11. Airport operations;
12. Maintenance and preflight inspection procedures.

GRADING METHODS:

ITINERARY: