



Course Master Syllabus

<https://www.gpo.gov/fdsys/pkg/FR-2016-06-28/pdf/2016-15079.pdf>

FAA-H-8083-25B -- Pilot's Handbook of Aeronautical Knowledge, available at:

https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/phak/media/pilot_handbook.pdf

Integration of Civil Unmanned Aircraft Systems (UAS) in the National Airspace System (NAS) Roadmap, available at:

https://www.faa.gov/uas/media/uas_roadmap_2013.pdf

U.S. House of Representatives Committee on Science, Space and Technology, "Unmanned Aircraft Systems (UAS) Research and Development" (January 21, 2015), available at

<http://docs.house.gov/Committee/Calendar/ByEvent.aspx?EventID=102840>

FAA Testifies To Congress: More UAS Delays, available at <http://www.wiggin.com/15605>

What You Need to Know to Legally Operate Your Drone Under New FAA Regulation, available at:

<https://www.expouav.com/news/latest/need-know-legally-operate-drone-new-faa-regulation/>

Ultimate Guide to U.S. Drone Regulations (2018), available at:

<https://jrupprechtlaw.com/drone-regulations>

Tom Schrimpf and Russ Klingaman, Recreational Drones: Do Homeowners' Insurance Policies Provide Coverage? (August 4, 2015), available at

<http://www.claimsjournal.com/news/national/2015/08/04/264918.htm>

Privacy Best Practices, available at: https://www.e-education.psu.edu/geog892/sites/www.e-education.psu.edu/geog892/files/images/lesson05/voluntary_best_practices_for_uas_privacy_transparency_and_accountability_0.pdf

State & Local Drone Laws, available at:

<http://dronecenter.bard.edu/state-and-local-drone-laws/>

<http://www.ncsl.org/research/transportation/current-unmanned-aircraft-state-law-landscape.aspx>

<https://jrupprechtlaw.com/drone-laws-state>



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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 scientific method of inquiry, through the acquisition of scientific knowledge; Use computer systems or other appropriate forms of technology to achieve educational and personal goals; Understand ethical issues and situations; Address an information need by locating, evaluating and effectively using information.

LEARNING ASSESSMENT

<i>Student Learning Outcomes:</i>	<i>Suggested Means of Assessment:</i>
Become proficient in the use of the common language of drones and UAS terminology, with particular emphasis on the acronyms used in aerospace communications.	Tests, Homework
Develop an understanding of NAS & navigation for all aircraft.	Tests, Homework, Practical Activity
Develop a mastery of FAA Sectional Chart reading, interpretation, and usage.	Tests, Homework, Practical Activity
Develop an understanding of airport operations & signage.	Tests, Homework
Develop and learn to communicate airspace terminology and the communication patterns of pilots.	Tests, Homework,
Develop the ability to communicate with Air Traffic Control (ATC).	Oral Exam, Practical Activity



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Develop an understanding and practical ability to engage emergency procedures,	Tests, Homework
Develop a comprehension of sUAS FAA regulations & Federal, state and local laws.	Research Paper
GRADING SYSTEM:	
A = 90 < 100	C+ = 77 < 80
B+ = 87 < 90	C = 70 < 77
B = 80 < 87	D = 60 < 70
	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.



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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. History papers will require the use of the most recent edition of the Chicago Manual of Style (CMS) footnotes, citations 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: (908) 835-2336 <http://warren.libguides.com>

Library Hours

Monday-Thursday 8am-8pm

Friday 8am-3pm

Check the Academic Calendar for specific holiday dates. Exceptions may apply during breaks and summer sessions. Any changes to the Library's hours are posted on the Library's web page and near the Library doors.

- **Passwords and Log-Ins-**The Library is responsible for resetting passwords for your Network account (email, computers, Wi-Fi, library resources, and printing). This cannot be reset over the phone. Please stop by the Library for help.
- **College IDs-**College IDs are required for all students. The Library is responsible for producing all ID cards. To get an ID card you must bring to the Library a current copy of your class schedule and another form of ID. Your student ID is also your library card and is needed to check materials out of the Library. Your first ID card is free and replacement cards are issued at a cost to the student.



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- **Inter-Library Loan (ILL)**-The Library participates in a nation-wide inter-library loan program which is available free to all students and faculty. You can either submit ILL requests via the Internet (form available on the Library's web page) or in person at the circulation desk.

TOPICAL OUTLINE:

1. Unmanned Aircraft Systems: Learning the Language of Drones
2. Federal Aviation Administration ("FAA") regulation of the use of UAS in the National Airspace System ("NAS")
3. Overview of the National Airspace System "NAS"
4. Regulations: Remote Pilot Certificate sUAS Rating Privileges, Limitations, and Flight Operations
5. Introduction to Airspace
 - a. Controlled Airspace
 - b. Airspace Classifications
 - c. IFR
 - d. VFR
 - e. Flight Service Stations
 - f. TFR's
 - g. NOTAMs
 - h. Aircraft Identification
 - i. MOA
 - j. MTR's
 - k. Prohibited Areas
 - l. Restricted Areas
 - m. Warning Areas
6. Introduction to Navigation
 - a. Aeronautical Charts
 - b. Sectional Charts
 - c. VFR Terminal Charts
 - d. World Aeronautical Charts
7. Introduction to Airport Operations
 - a. NOTAMS
 - b. TFR's
 - c. Airport Signs & Markings
 - d. Air Traffic Control
8. Radio Communications Procedures
 - a. Radio Phraseology
 - b. Standard Pronunciations
 - c. Numbers, Altitude & Time
 - d. Altimeter Settings
 - e. Air Traffic Control Facilities



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- f. TACAN
- g. VORTAC
- h. Global Navigation Satellite Systems
- i. Global Positioning Systems
- j. Augmentation Systems
- 9. Overview of AIM Aeronautical Information Manual
- 10. Emergency Procedures
- 11. Maintenance & Pre-Flight Procedures
- 12. Administrative Procedures Act and the FAA's implementation of federal aviation law
- 13. Civil and criminal issues such as invasion of privacy and trespass
- 14. Freedom of the Press
- 15. State & Local Laws
- 16. UAS insurance
- 17. Ethics of and international laws governing military use of UAS.

GRADING METHODS:

ITINERARY: