

# COURSE OUTCOME MATRIX

## COURSE SYLLABUS

### PART 2 of 3

Course Number and Title	IT134 UAV Basic Flight Preparation, Systems, and Safety Training
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Credit Hours	3
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Course Description	This course acts as a ground school for small unmanned aerial vehicles and provides the information needed to fly commercially under FAA Part 107 rules and to pass the exam. Criteria covered in this course focuses around the FAA Part 107 but also dives deeper into small unmanned aerial system use itself. Safety, pre-flight preparation, post-flight preparation, tools, emergency procedures and simulation are essential topics within the course. Each of these topics include first-hand investigation via extensive equipment use, research, and inquiry.
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Prerequisite(s) and/or Corequisite(s)	None
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Required Textbooks/References/Course Materials:  
None.

	General Education Outcomes
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

	Program/Department Outcomes
1	Discuss and evaluate potential technology related ethical dilemmas and apply decision-making techniques to resolve them.
2	Demonstrate proficiency in selecting, implementing, and operating information technology solutions to meet project requirements.
3	Apply essential IT support skills in order to install, configure, secure, and troubleshoot operating systems, programs, networks, and pc hardware.
4	Prepared to take and pass industry standard certification exams.
5	Develop the ability to use oral and written communication effectively with clients and other industry professionals.
6	Engage in teams to develop and/or implement IT-based project solutions.
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	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Identifying weather risks and determining the effect on the UAV	Cognitive Applying (3)	1,4,5	2	1	2	2	2	0
2	Discuss depth perception and how to analyze the distance a UAV is from an obstruction	Cognitive Analyzing (4)	1,2,4	2	2	2	2	1	0
3	Recognizing the issues regarding battery maintenance and storage	Cognitive Evaluating (5)	1,2,3	2	1	2	2	1	0
4	Demonstrate the use of a basic before flight maintenance checklist	Cognitive Evaluating (5)	1,5	2	1	2	2	1	0
5	Demonstrate the use of a flight/maintenance data log	Cognitive Evaluating (5)	1,5	2	1	2	2	1	0
6	Discuss the implications of flying over water and in different environments	Cognitive Analyzing (4)	1,4,5	2	2	2	2	1	0
7	Identify and Explain the FAA Part 107 rules	Cognitive Remembering (1)		2	2	2	2	2	0
8	Discuss and prepare for the FAA Knowledge Exam - Remote Pilot Airman Certificate	Cognitive Understanding (2)	1,4,5	2	2	2	2	2	0
9	Identify and explain commercial uses for your certification	Psychomotor Articulate (4)	4,5	2	2	2	2	1	0
10	Utilizing simulator time to perfect your flight	Psychomotor Perfect (3)	4	0	0	2	2	1	0

Bloom's Domain Legend

C = Cognitive  
A = Affective  
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable  
1 = Introduced and/or Minimally Addressed and Not Measurable  
0 = Not included

Approved: May 2021  
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