



UNMANNED AERIAL SYSTEMS

Curriculum Framework Revised 2019

UAS LEVEL TWO: Designed for 135-180 hours of instructional time

RBT	Weight	Objectives / Indicators
REGULATIONS AND APPLICATIONS		
B2	8%	201. Review Current Regulations and Industry Applications.
B2	4%	201.01 Review federal, state and local regulations governing UAS operations.
B2	2%	201.02 Examine industry applications of UAS operations.
B2	2%	201.03 Research UAS post-secondary training and careers.
TROUBLESHOOTING AND MAINTENANCE		
C3	12%	202. Execute Troubleshooting.
C3	4%	202.01 Calibrate flight computer.
C3	2%	202.02 Establish a troubleshooting theory.
C3	6%	202.03 Apply a theory to solve common UAS hardware, software and communication problems.
C3	6%	203. Perform Maintenance and Repair.
C3	2%	203.01 Select and use appropriate maintenance tools.
C3	4%	203.02 Apply appropriate repair procedures.
AERONAUTICAL KNOWLEDGE		
B2	8%	204. Understand Aeronautical Principles.
B2	3%	204.01 Classify airspace.
B2	3%	204.02 Read and interpret sectional charts.
B2	2%	204.03 Demonstrate understanding of airport procedures.
B2	9%	205. Understand Weather Reports and Impact.
B2	4%	205.01 Interpret weather reports from various sources.
B2	5%	205.02 Explain how weather impacts UAS operations.
B2	7%	206. Understand and Demonstrate UAS Operations.
B2	3%	206.01 Demonstrate proper radio communications procedures.
B2	4%	206.02 Demonstrate appropriate emergency procedures.
DESIGN AND MANUFACTURING		
C3	24%	207. Examine Digital Design and Manufacturing.
B2	4%	207.01 Describe how purpose impacts design.
B2	2%	207.02 Compare types of digital manufacturing.
C3	9%	207.03 Design a 3-D model.
C3	9%	207.04 Create a 3-D printed UAS component.



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INDUSTRY-SPECIFIC APPLICATIONS		
C3	26%	208. Execute Mission.
C3	16%	208.01 Develop a UAS solution for a given industry-specific scenario.
C3	2%	208.02 Select appropriate platform for a specific mission.
C3	4%	208.03 Configure flight plan using appropriate software.
C3	4%	208.04 Select and execute appropriate flight modes.