**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# GENERAL COURSE INFORMATION

Course Number: MLTR 1001

Course Title: Small Unmanned Aircraft System Operations

Credit Hours: 4.5

Prerequisite: None

Division/Discipline: Military Programs

Course Description: This course provides the basic operator the skills to operate a Small Unmanned Aircraft System (SUAS) as part of a team in order to provide essential reconnaissance and surveillance imagery assistance as an overall mission accomplishment on the battlefield.

# INSTRUCTION INFORMATION

# CLASSROOM POLICIES

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of,

intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be

detrimental to the College educational endeavors as outlined in the College Catalog,

Student Handbook, and College Policy & Procedure Manual. (Most up-to-date

documents are on available on the College webpage.)

Any student seeking an accommodation under provisions of the Americans with Disabilities Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# COURSE AS VIEWED IN THE TOTAL CURRICULUM

This course is a structured learning experience designed to introduce and prepare students to perform the duties of controlling the flight of an SUAS. The student will prepare the SUAS, launch, and perform recovery tasks essential to operate the SUAS. Students will leave this course with the hands on experience that will positively impact their military unit’s ability to effectively perform reconnaissance, surveillance, and imagery analysis on the battlefield.

General education requirements vary among institutions, and perhaps even among departments, colleges, or programs within an institution. Also, these requirements may change from time to time without notification. Therefore, it shall be the student’s responsibility to obtain relevant information from intended transfer institution during his/her tenure at BCC to insure that he/she enrolls in the most appropriate set of courses for the transfer program.

# ASSESSMENT OF STUDENT LEARNING / COURSE OUTCOMES

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies

1. Demonstrate the safe operation of the SUAS aircraft.
   1. Operate SUAS battery charger.
   2. Outline and conduct a SUAS crew mission brief.
   3. Demonstrate maintenance procedures on SUAS in accordance with the operator’s manual.
2. Perform assembly, and disassembly functions of a SUAS.
   1. Assemble SUAS.
   2. Assemble ground control station.
   3. Assemble remote viewing terminal.
   4. Disassemble and store system.

1. Perform per-flight checks in accordance with operator’s manual.
   1. Perform airspace management coordination.
   2. Explain SUAS preflight mission planning and checks.
   3. Demonstrate before takeoff checks.
2. Perform flight operations utilizing both manual and autonomous flight modes.
   1. Perform launching unmanned aircraft.
   2. Operate and demonstrate unmanned aircraft in-flight operations.
   3. Complete post-landing checks.
   4. Complete auto-land procedures.
   5. Complete post-flight procedures.
   6. Demonstrate remote launching procedures.
   7. Demonstrate and respond to emergency procedures.
3. Demonstrate a working knowledge of basic surveillance and reconnaissance techniques.
   1. Implement covert approaches.
   2. Execute low-level flights and approaches.
   3. Execute low-level landing and high altitude auto-landing.

# INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

# TEXTBOOKS AND OTHER REQUIRED MATERIALS

# REFERENCES

# METHODS OF INSTRUCTION AND EVALUATION

# ATTENDANCE REQUIREMENTS

# COURSE OUTLINE