

Course Prefix/Number/Title: UAS 107 – Commercial UAS Operations

Number of Credits: 2

Course Description: This course gives students the knowledge needed to earn a Commercial sUAS Certificate as outlined in Chapter 14 CFR Part 107 of the Federal Aviation Administration regulations. Topics such as weather, airspace, on and off airport operations, emergency procedures and human factors will be explored in detail.

Pre-/Co-requisites: None

Course Objectives: Upon successful completion of this course students will be able to:

1. Understand the current FAA regulations under 14 CFR Part 107.
2. Identify appropriate airspace using sectional charts.
3. Assess risks from various sources, such as weather, airspace, equipment, and surrounding.
4. Be prepared to take the FAA's aeronautical knowledge examination.

Instructor: Linda Burbidge, PhD

Office: Molberg 20

Office Hours: MW 2:00pm – 3:00pm & TH 9:00am – 10am

Phone: 701-228-5442

Email: Linda.Burbidge@dakotacollege.edu

Lecture Schedule: MTWH 1:00pm – 1:50pm, 1st Eight Weeks

Textbook(s): Material will be provided throughout the semester.

Course Requirements: This is an introductory course. Students are expected to come to class prepared to listen and discuss during lectures. Points will come from professionalism, quizzes and exams. The breakdown will be as follows:

Requirement	Percentage
Homework	15%
Quizzes	25%
Professionalism	20%
Exam	40%
Total	100%

Homework: There will be a combination of assigned readings and traditional assignments. Late homework will be accepted with a deduction of 20%.

Professionalism: In preparation for the real world, your class grade will be dependent upon professionalism. This means you will be graded on a combination of attendance, engagement in learning, and meeting deadlines.

Quizzes: There will be a quiz over each of the 6 topic sections Each quiz will be worth 20 points Quizzes will be administered on Blackboard.

Exams: Exams in the course are meant to simulate the actual FAA Aeronautical Knowledge Examination. I will make the exams available towards the end of the course. You will be able to take this exam as many times as you want in preparation for the exam. I will take your highest score as your course exam grade. However, in real life, you will only get one shot at the exam every 2 weeks and each attempt costs you \$160.

*Make up exams are offered only under extenuating circumstances. All make-up exams should be taken within a week of the missed exam.

Grading and Evaluation:

Total Point Percentage	Letter Grade
90% and ↑	A
80% - 89.99%	B
70% - 79.99%	C
60% - 69.99%	D
59.99% and ↓	F

Tentative Course Outline:

Week of:	Topic
Jan 12 – Jan 15	FAA Drone Regulations
Jan 18 – Jan 22	Regulations/Understanding National Airspace
Jan 25 – Jan 29	Airspace/Reading Sectional Charts
Feb 1 – Feb 5	Reading Sectional Charts
Feb 8 – Feb 12	Airport Ops/Weather
Feb 15 – Feb 19	Weather/Best Practices and Flight Ops
Feb 22 – Feb 26	How to become certified/Taking the Exam
Mar 1 – Mar 5	Catch-up/Review /Final

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): This course meets the CTE department learning outcome of employing industry-specific skills in preparation for workplace readiness by:

1. Demonstrate problem-solving aptitude.
 - a. Be aware of the regulations for safe flight.
 - b. Understand what airspace is safe for flying.
2. Expand critical thinking competence.

- a. Assess risks associated with flying.
- b. Interpret sectional maps, TFRs, METAR reports.
- c. Understand your responsibilities as a certified commercial drone pilot.

Relationship to Campus Focus: This course addresses the campus theme of Nature, Tehnology, and Beyond by incorporating the latest procedures, technologies and innovative designs of unmanned aircraft systems and their operations.

Classroom Policies: Be polite and respectful of the instructor, other students, and any guests in our class. We will follow any COVID-19 classroom policies currently in force by the University system.

Student Email Policy: Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity: According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs: Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX: Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.