

AVTE Assessments 2022-2023



Assessment data has been collected from Aviation Technology's (AVTE's) Aviation Management: Unmanned Aerial System Emphasis Bachelors degree program. This data was collected, using Canvas outcomes, from the following semesters:

Summer 2022 - Fall 2022 - Spring 2023

Outcomes for this degree were developed by AVTE's Unmanned Aerial System faculty and staff. Outcomes were then uploaded into Canvas and faculty embedded those outcomes into each of his/her respective course. Faculty and staff then established specific course objectives in support of the outcomes. Finally, the objectives were used to evaluate whether students met the degree outcomes.

Outcome Standards

To satisfy the program's mastery standard of "Meets Expectations," instructors evaluate students' knowledge and skills in sufficient depth to ensure that the objectives for each course are achieved. This evaluation may include a written knowledge test, an oral test, or a practical application evaluation.

Due to the unique nature of aviation training requirements, it is not feasible to establish all-encompassing outcome standards (such as standardized percentages or practical application standards, etc.) to determine mastery. Instead, objectives are individually determined by each course of instruction to align with and assess outcome mastery.

Compliance in Curriculum Development and Continuous Improvement

Our commitment to excellence and compliance is reflected in our approach to curriculum development and continuous improvement. We ensure that our courses adhere to the guidelines and regulations set forth by the Federal Aviation Administration (FAA). By actively monitoring and staying up to date with FAA requirements, we consistently make necessary adjustments to our curriculum, ensuring that our students receive the most relevant and comprehensive education in the field each semester.

In addition to FAA regulations, we recognize the importance of meeting the evolving needs and expectations of our industry partners. We maintain a collaborative relationship with industry professionals and organizations, regularly seeking their input and feedback. This enables us to adapt and enhance our curriculum to align with the latest industry trends, technologies, and practices. By doing so, we equip our students with the skills and knowledge required to excel in their chosen careers and contribute meaningfully to the aviation industry.

Our commitment to incorporating FAA regulations and industry demands into our curriculum underscores our dedication to providing a high-quality education that prepares students for success in the aviation field.



AVTE's Degree Outcomes

Aviation Management: Unmanned Aerial System Emphasis (BS)

UAS #1: **Learn** basic principles of aviation science.

UAS #2: **Demonstrate** knowledge of the fundamental principles and concepts related to unmanned aerial systems.

UAS #3: **Develop** a working knowledge of design, maintenance, and control of unmanned aerial systems.

UAS #4: **Utilize** skills to earn and maintain an FAA small unmanned aerial system pilot's certificate.

UAS #5: **Demonstrate** the ability to safely fly sUASs.

Learning Outcome	% of students who met the outcome	Course	Assignment which was assessed
UAS #1	100%	Spring 2023 AV-1100-MB1 XL	[J] 100 Facts List
UAS #1	100%	Spring 2023 AV-1960-PT1	6.2 Final Project Draft Discussion
UAS #1	100%	Spring 2023 AV-1960-PT1	6.3 Final Project Presentation - Paper
UAS #1	100%	Spring 2023 AV-1960-PT1	6.4 Final Project Presentation - Video
UAS #1	79%	Fall 2022 AV-3010-MB1 XL	8.3 Air Traffic Management Quiz
UAS #1	100%	Spring 2023 AV-3900-004	Module 13 - Research Paper
UAS #2	100%	Spring 2023 AV-3900-003	[C] Project Submission
UAS #2	100%	Spring 2023 AV-3500-001	10.4 FAA Part 107 Exam
UAS #2	92%	Spring 2023 AV-3500-002	10.4 FAA Part 107 Exam
UAS #2	94%	Spring 2023 AV-3500-003	10.4 FAA Part 107 Exam

Learning Outcome	% of students who met the outcome	Course	Assignment which was assessed
UAS #2	100%	Fall 2022 AV-1900-001	10.4 FAA UAG Exam - Actual
UAS #2	100%	Fall 2022 AV-1900-PT3	10.4 FAA UAG Exam - Actual
UAS #2	100%	Fall 2022 AV-3500-001	10.4 FAA UAG Exam - Actual
UAS #2	83%	Fall 2022 AV-3500-002	10.4 FAA UAG Exam - Actual
UAS #2	88%	Spring 2023 AV-1900-PB1 XL	10.4 FAA UAG Exam - Actual
UAS #2	92%	Fall 2022 AV-1930-001	2.4 LAANC Approval Assignment
UAS #2	100%	Spring 2023 AV-1930-001	2.4 LAANC Approval Assignment
UAS #2	79%	Spring 2023 AV-1930-002	2.4 LAANC Approval Assignment
UAS #2	100%	Fall 2022 AV-1905-IO1	8.2 Recurrent Training Certification
UAS #2	100%	Spring 2023 AV-1905-IO1	8.2 Recurrent Training Certification
UAS #2	100%	Summer 2022 AV-1905-IO1	8.2 Recurrent Training Certification
UAS #2	100%	Summer 2022 AV-1910-001	8.3 FAA Part 107 Exam - Actual
UAS #2	100%	Spring 2023 AV-1900-PB1 XL	8.5-2 (Lab #6) HolyStone Teaching
UAS #2	100%	Fall 2022 AV-1910-001	FAA Part 107 Exam - Actual
UAS #2	100%	Spring 2023 AV-1910-001	FAA Part 107 Exam - Actual
UAS #2	100%	Spring 2023 AV-3900-004	Module 13 - Research Paper
UAS #2	100%	Spring 2023 AV-3505-001	Part 107 Cert
UAS #3	100%	Spring 2023 AV-3900-003	[C] Project Submission
UAS #3	71%	Fall 2022 AV-3515-002	Final Checkpoint - HolyBro S500 Final
UAS #3	67%	Spring 2023 AV-3515-001	Final Checkpoint - HolyBro S500 Final
UAS #3	100%	Spring 2023 AV-3510-001	Final Project Modifications Built
UAS #3	84%	Spring 2023 AV-3525-002	Obstacle Avoidance Behavior Modifica
UAS #3	89%	Spring 2023 AV-3525-002	Surface Tracking Part 2
UAS #4	100%	Spring 2023 AV-3900-003	[C] Project Submission
UAS #4	100%	Fall 2022 AV-1930-001	1.4 Remote Pilot Certification Verificat
UAS #4	100%	Spring 2023 AV-1930-001	1.4 Remote Pilot Certification Verificat
UAS #4	85%	Spring 2023 AV-1930-002	1.4 Remote Pilot Certification Verificat
UAS #4	100%	Spring 2023 AV-3500-001	10.4 FAA Part 107 Exam
UAS #4	92%	Spring 2023 AV-3500-002	10.4 FAA Part 107 Exam
UAS #4	94%	Spring 2023 AV-3500-003	10.4 FAA Part 107 Exam
UAS #4	100%	Fall 2022 AV-1900-001	10.4 FAA UAG Exam - Actual
UAS #4	100%	Fall 2022 AV-1900-PT3	10.4 FAA UAG Exam - Actual

Learning Outcome	% of students who met the outcome	Course	Assignment which was assessed
UAS #4	100%	Fall 2022 AV-3500-001	10.4 FAA UAG Exam - Actual
UAS #4	83%	Fall 2022 AV-3500-002	10.4 FAA UAG Exam - Actual
UAS #4	75%	Spring 2023 AV-1900-PB1 XL	10.4 FAA UAG Exam - Actual
UAS #4	100%	Summer 2022 AV-1910-001	8.3 FAA Part 107 Exam - Actual
UAS #4	100%	Spring 2023 AV-3500-002	8.4 Recurrent Training Certification
UAS #4	100%	Spring 2023 AV-1900-PB1 XL	8.5-2 (Lab #6) HolyStone Teaching
UAS #4	100%	Fall 2022 AV-1910-001	FAA Part 107 Exam - Actual
UAS #4	100%	Spring 2023 AV-1910-001	FAA Part 107 Exam - Actual
UAS #4	100%	Spring 2023 AV-1910-001	FAA Remote Pilot Recurrent Knowledg
UAS #4	84%	Spring 2023 AV-3525-002	Obstacle Avoidance Behavior Modifica
UAS #4	100%	Spring 2023 AV-3505-001	Part 107 Cert
UAS #4	89%	Spring 2023 AV-3525-002	Surface Tracking Part 2
UAS #5	100%	Spring 2023 AV-1900-PB1 XL	(Lab #1) Simulator or HolyStone
UAS #5	100%	Spring 2023 AV-1900-PB1 XL	(Lab #2) HolyStone Manual
UAS #5	100%	Spring 2023 AV-1900-PB1 XL	(Lab #5) HolyStone in Reverse
UAS #5	100%	Fall 2022 AV-1930-001	5.3 Operation Assignment #2
UAS #5	100%	Spring 2023 AV-1930-001	5.3 Operation Assignment #2
UAS #5	100%	Spring 2023 AV-1930-002	5.3 Operation Assignment #2
UAS #5	100%	Spring 2023 AV-1900-PB1 XL	(Lab #3) Controlled Flight
UAS #5	100%	Spring 2023 AV-1900-PB1 XL	(Lab #4) Obstacle HolyStone Flight
UAS #5	100%	Spring 2023 AV-3900-003	[C] Project Submission
UAS #5	100%	Spring 2023 AV-1930-001	10.1 Operation Assignment (Real Estat
UAS #5	100%	Spring 2023 AV-1930-002	10.1 Operation Assignment (Real Estat
UAS #5	100%	Fall 2022 AV-1930-001	10.2 Operation Assignment #4
UAS #5	100%	Fall 2022 AV-1930-001	3.4 Operation #1
UAS #5	100%	Spring 2023 AV-1930-001	3.4 Operation Assignment #1
UAS #5	100%	Spring 2023 AV-1930-002	3.4 Operation Assignment #1
UAS #5	100%	Fall 2022 AV-1930-001	7.4 Operation Assignment #3
UAS #5	95%	Spring 2023 AV-1930-001	7.4 Operation Assignment #3
UAS #5	100%	Spring 2023 AV-1930-002	7.4 Operation Assignment #3
UAS #5	100%	Spring 2023 AV-3505-001	9.5 sUAS Flight Test
UAS #5	100%	Fall 2022 AV-1900-PT1	Fixed-Wing Flight #1 (Lab #2)

Learning Outcome	% of students who met the outcome	Course	Assignment which was assessed
UAS #5	100%	Fall 2022 AV-1900-PT1	Fixed-Wing Lab #2 (Lab #4)
UAS #5	100%	Fall 2022 AV-1900-001	Fixed-Wing Lab (Fly Day) #1
UAS #5	100%	Fall 2022 AV-1910-001	Fixed-Wing Lab (Fly Day) #1
UAS #5	100%	Fall 2022 AV-3500-002	Fixed-Wing Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-1910-001	Fixed-Wing Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-3500-001	Fixed-Wing Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-3500-002	Fixed-Wing Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-3500-003	Fixed-Wing Lab (Fly Day) #1
UAS #5	100%	Summer 2022 AV-1910-001	Fixed-Wing Lab (Fly Day) #1
UAS #5	92%	Fall 2022 AV-1900-001	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Fall 2022 AV-1900-PT3	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Fall 2022 AV-1910-001	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Fall 2022 AV-3500-002	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-1910-001	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-3500-001	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-3500-002	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-3500-003	Fixed-Wing Lab (Fly Day) #2
UAS #5	100%	Summer 2022 AV-1910-001	Fixed-Wing Lab (Fly Day) #2
UAS #5	88%	Fall 2022 AV-1900-001	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Fall 2022 AV-1900-PT3	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Fall 2022 AV-1910-001	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Fall 2022 AV-3500-002	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Spring 2023 AV-1910-001	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Spring 2023 AV-3500-001	Fixed-Wing Lab (Fly Day) #3
UAS #5	92%	Spring 2023 AV-3500-002	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Spring 2023 AV-3500-003	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Summer 2022 AV-1910-001	Fixed-Wing Lab (Fly Day) #3
UAS #5	100%	Fall 2022 AV-1900-PT1	Fixed-Wing Lab (Fly Day) #3 (Lab #6)
UAS #5	84%	Spring 2023 AV-3525-002	Obstacle Avoidance Behavior Modifica
UAS #5	100%	Fall 2022 AV-1900-001	Quadcoptor Flight Lab #1
UAS #5	100%	Fall 2022 AV-1900-PT3	Quadcoptor Flight Lab #1
UAS #5	100%	Fall 2022 AV-3500-002	Quadcoptor Flight Lab #1

Learning Outcome	% of students who met the outcome	Course	Assignment which was assessed
UAS #5	100%	Spring 2023 AV-3505-001	Quadcopter Flight Lab #1
UAS #5	100%	Fall 2022 AV-1900-PT1	Quadcopter Flight Lab #1 (Lab #3)
UAS #5	100%	Fall 2022 AV-1910-001	Quadcopter Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-1910-001	Quadcopter Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-3500-001	Quadcopter Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-3500-002	Quadcopter Lab (Fly Day) #1
UAS #5	100%	Spring 2023 AV-3500-003	Quadcopter Lab (Fly Day) #1
UAS #5	100%	Summer 2022 AV-1910-001	Quadcopter Lab (Fly Day) #1
UAS #5	100%	Fall 2022 AV-1900-001	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Fall 2022 AV-1900-PT3	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Fall 2022 AV-1910-001	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Fall 2022 AV-3500-002	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-1910-001	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-3500-001	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-3500-002	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-3500-003	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Spring 2023 AV-3505-001	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Summer 2022 AV-1910-001	Quadcopter Lab (Fly Day) #2
UAS #5	100%	Fall 2022 AV-1900-001	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Fall 2022 AV-1910-001	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Fall 2022 AV-3500-002	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Spring 2023 AV-1910-001	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Spring 2023 AV-3500-001	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Spring 2023 AV-3500-002	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Spring 2023 AV-3500-003	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Summer 2022 AV-1910-001	Quadcopter Lab (Fly Day) #3
UAS #5	100%	Fall 2022 AV-1900-PT3	Sim Flight Lab #1
UAS #5	100%	Fall 2022 AV-1900-PT1	Sim Flight Lab (Lab #1)
UAS #5	89%	Spring 2023 AV-3525-002	Surface Tracking Part 2