

Bachelor of Science in Aeronautics with a Major in Unmanned Aircraft Systems Operations

Required: 120 credits (36 of which must be numbered 300 or above) including:

- I. Essential Studies Requirements (see University ES listing).
- II. School of Aerospace Sciences Requirements (see College section).
- III. The following curriculum:

Code	Title	Credits	
Essential Studies Courses			
ENGL 110	College Composition I	3	
ENGL 130	Composition II: Writing for Public Audiences	3	
COMM 110	Fundamentals of Public Speaking	3	
Social Science Ele	9		
Fine Arts and Hum	nanities Electives	9	
ATSC 110	Meteorology I	3	
ATSC 110L	Meteorology I Laboratory	1	
MATH 103	College Algebra	3	
or MATH 110	Mathematics in Society		
CSCI 130	Introduction to Scientific Programming	4	
or CSCI 160	Computer Science I		
CSCI 290	Cyber-Security and Information Assurance	3	
Other Requireme	nts		
ATSC 231	Aviation Meteorology	4	
Select one of the	following:	3	
BADM 225	Professional Communication for Business		
COMM 200	Writing for New and Traditional Media		
ENGL 226	Introduction to Creative Writing		
ENGL 227	Literature and the Environment		
ENGL 230	Analyzing Worldview through Story		
ENGL 231	Literature and Social Issues		
ENGL 308	The Art of Writing Nonfiction		
Aviation Core Co	urses		
AVIT 100	Aviation Orientation	1	
AVIT 103	Introduction to Air Traffic Management	2	
AVIT 126	Introduction to UAS Operations	2	
AVIT 208	Aviation Safety	3	
AVIT 239	Autonomous Fundamentals	2	
AVIT 240	UAS Enabling Concepts	3	
AVIT 250	Human Factors	2	
AVIT 331	UAS Flight Systems	4	
AVIT 333	UAS Remote Sensing	4	
AVIT 403	Aerospace Law	3	
AVIT 430	Crew Resource Management	3	
AVIT 450	Counter UAS Applications	3	
AVIT 485	Aviation Senior Capstone	3	
Total Credits		83	

Track Options

Track Options include Airplane, Low Altitude, UAS Commercial Applications and Operations (Small Track), Airplane, Medium/High Altitude, Long Endurance UAS Commercial Applications and Operations (Large Track), Helicopter,

AVIT 343

Low Altitude, UAS Commercial Applications and Operations (Small Track) and Helicopter, Medium/High Altitude, Long Endurance UAS Commercial Applications and Operations (Large Track).

Code	Title Altitude, UAS Commercial Applications and Operati	Credits
(Small Track)	Annude, 0A3 Commercial Applications and Operati	Olis
Note: Student m Instrument Ratii	nust obtain an Airplane Private Pilot Certificate with ng	
AVIT 102	Introduction to Aviation	5
AVIT 221	Basic Attitude Instrument Flying	3
AVIT 222	IFR Regulations and Procedures	3
AVIT 238	UAS Operator Certification	3
AVIT 323	Aerodynamics - Airplanes (Flight lab is not required	l) 3
AVIT 324	Aircraft Systems (Flight lab is not required)	3
AVIT 337	Survey of Unmanned Aircraft Systems	2
AVIT 419	sUAS Commercial Operations	4
Total Credits		26
Code	Title	Credits
	um/High Altitude, Long Endurance UAS Commercia nd Operations (Large Track)	I
	nust obtain an Airplane Commercial Certificate with	
Instrument Ratio	•	
AVIT 102	Introduction to Aviation	5
AVIT 221	Basic Attitude Instrument Flying	3
AVIT 222	IFR Regulations and Procedures	3
AVIT 238	UAS Operator Certification	3
AVIT 323	Aerodynamics - Airplanes	3
AVIT 324	Aircraft Systems	3
AVIT 337	Survey of Unmanned Aircraft Systems	2
AVIT 438	UAS Operations	4
•	Title w Altitude, UAS Commercial Applications and	Credits
Operations (Sn Note: Student m Instrument Ratio	nust obtain Helicopter Private Pilot Certificate with	
AVIT 142	Introduction to Aviation-Helicopter	5
AVIT 143	Private Pilot-Helicopter Certification Lab	1
AVIT 238	UAS Operator Certification	3
AVIT 241	Commercial Helicopter	4
AVIT 337	Survey of Unmanned Aircraft Systems	2
AVIT 342	IFR Regulations and Procedures-Helicopter	3
AVIT 343	Instrument Rating-Helicopter Certification Lab	1
AVIT 419	sUAS Commercial Operations	4
AVIT 444	Helicopter Advanced Operations	4
Total Credits		27
Codo	T:41a	Cradita
Code Helicopter, Me	Title dium/High Altitude, Long Endurance UAS Commerc	Credits
Applications a	nd Operations (Large Track)	
Note: Student m Instrument Ration	nust obtain Helicopter Commercial Certificate with ng	
AVIT 142	Introduction to Aviation-Helicopter	5
AVIT 143	Private Pilot-Helicopter Certification Lab	1
	Frivate Filot-Helicopter Certification Lab	
AVIT 238	UAS Operator Certification	3
	•	3 4
AVIT 238 AVIT 241 AVIT 242	UAS Operator Certification	
AVIT 241	UAS Operator Certification Commercial Helicopter	4
AVIT 241 AVIT 242	UAS Operator Certification Commercial Helicopter Introduction to Commercial Flying-Helicopter Lab	4 1

Instrument Rating-Helicopter Certification Lab



Lab 1
4
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Plus electives to total 120 credits.