

# Bachelor of Science in Aeronautics with a Major in Commercial Aviation

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
<b>Essential Studies Courses</b>		
ENGL 110	College Composition I	3
ENGL 130	Composition II: Writing for Public Audiences	3
COMM 110	Fundamentals of Public Speaking	3
Social Science Electives		9
Fine Arts and Humanities Electives		9
ATSC 110	Meteorology I	3
ATSC 110L	Meteorology I Laboratory	1
MATH 103	College Algebra	3
or MATH 110	Mathematics in Society	
Math, Science, and Technology Elective		2
<b>Aviation Core Courses</b>		
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 250	Human Factors	2
AVIT 309	Flight Physiology	3
AVIT 403	Aerospace Law	3
AVIT 411	International and Long Range Navigation	3
AVIT 430	Crew Resource Management	3
AVIT 485	Aviation Senior Capstone	3
Select any two of the following courses:		6
AVIT 402	Airport Planning and Administration	
AVIT 405	Airline Operations and Management	
AVIT 407	General Aviation Operations and Management	
<b>Other Requirements</b>		
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	Intermediate Creative Nonfiction Writing	
<b>Required Courses - Airplane Option</b>		
AVIT 220	Enhanced Basic Attitude Instrument Flying (Course required for students entering the aviation program with an FAA Private Pilot Certificate)	0-4
AVIT 102	Introduction to Aviation (Not required for students authorized to complete AVIT 220)	0-5
AVIT 221	Basic Attitude Instrument Flying (Not required for students authorized to complete AVIT 220)	0-3
AVIT 222	IFR Regulations and Procedures	3
AVIT 323	Aerodynamics - Airplanes	3

AVIT 324	Aircraft Systems	3
AVIT 325	Multi-Engine Systems and Procedures	2
AVIT 327	Gas Turbine Engines	2
AVIT 414	Certified Flight Instructor Certification	5
AVIT 415	Instrument Flight Instructor	4
AVIT 421	Advanced Aerodynamics	3
AVIT 428	Transport Category Aircraft Systems	4
AVIT 480	Advanced Aircraft Operations	3
<b>Required Courses - Helicopter Option</b>		
AVIT 142	Introduction to Aviation-Helicopter	5
AVIT 143	Private Pilot-Helicopter Certification Lab	1
AVIT 241	Commercial Helicopter	4
AVIT 242	Introduction to Commercial Flying-Helicopter Lab	1
AVIT 247	R44 Helicopter Transition Lab	1
AVIT 310	Public Safety Aviation	3
AVIT 342	IFR Regulations and Procedures-Helicopter	3
AVIT 343	Instrument Rating-Helicopter Certification Lab	1
AVIT 444	Helicopter Advanced Operations	4
AVIT 445	Commercial Pilot-Helicopter Certification Lab	1
Two of the Following Courses for the Helicopter Option		
AVIT 311	Safety Management System (SMS)	3
AVIT 238	UAS Operator Certification	3
AVIT 247	R44 Helicopter Transition Lab	1
AVIT 415	Instrument Flight Instructor	4
AVIT 440	Helicopter Instructor Certification	1
Plus electives to total 120 credits.		