AVIATION, BACHELOR OF SCIENCE (B.S.)

Aviation, Bachelor of Science with a Concentration in Aerospace Management (B.S.)

The Aerospace Management Concentration prepares students for exciting professional careers in all aspects of the aerospace industry from a management perspective. Many professionally trained personnel are needed to keep the nation's airports, airlines, and other aviation-related organizations and businesses running effectively and efficiently. Careers with airports, airlines, and fixed base operations (FBO), as well as consulting companies and federal, state, and local agencies, are all possible for graduates of the Aviation Management concentration program. Students will gain important financial, marketing, technical, and business skills needed to successfully manage operations in the aviation industry. The mission of the Aviation Management Concentration is to prepare our students to become the leaders of the next generation of aerospace professionals by developing the knowledge, skills, and attitudes necessary for successful careers in aerospace.

Aviation, Bachelor of Science with a Concentration in Aerospace Technology (B. S.)

The Aerospace Technology (AT) degree is a degree completion concentration. By adding upper-division aerospace management and operation's studies, the bachelor's degree AT concentration is specifically designed to complete a two-year community college degree with a heavy technical aviation course load. Examples of aviation technical degrees include Airframe and Powerplants (A&P), a two-year helicopter and/or airplane pro flight degree, any two-year career technical (CTE) degree partnered with a local flight school, any two-year air traffic control program, and /or any two-year aerospace management program, Additionally, non-degreed airline pilots with the Airline Transport Pilot (ATP) certificate may complete their Bachelor's degree with this concentration.

Aviation, Bachelor of Science with a Concentration in Professional Flight (B. S.)

Note: VA Regulations for Aviation Courses

Students using GI Bill® benefits to fund an aviation course must complete each course and/or flight lab within one year of initial registration; failure to do so will result in the student being assigned a grade of NC (No Credit). Students using GI Bill® benefits must repay to the VA the cost (including a portion of stipends for living expenses) related to any course in which a grade of NC is earned. All student participants receiving Veterans Administration benefits have 19 calendar weeks from the date of the first flight event to complete an Aviation flight lab.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at http://www.benefits.va.gov/gibill (http://www.benefits.va.gov/gibill/)

Aviation Flight Hours & Costs/Fees

A complete listing of aviation related fees for the current academic year is published on the EKU Aviation Flight Fees website (http://aviation.eku.edu/aviation-flight-fees (http://aviation.eku.edu/aviation-flight-fees/)), and included in materials provided by the flight instructors.

Additionally, all VA funded flight students receive this information from the EKU and Veteran Affairs during their enrollment certification process. Students should verify through their regional Department of Veterans Affairs processing office if they have questions regarding their eligibility to use VA resources to complete the requirements of the EKU Aviation program.

Aviation, Bachelor of Science with a Concentration in Unmanned Aircraft Systems (B.S.)

Eastern Kentucky University's (EKU) new Unmanned Aircraft Systems (UAS) concentration is the first of its kind in the Commonwealth and one of only a handful in the United States. Students will prepare for thousands of new jobs created in numerous industries as unmanned aircraft systems become a major fixture in the future of aviation across the United States and worldwide. This newest Aerospace concentration includes cutting-edge technology with hands-on courses in operating and flying unmanned aircraft systems, mission planning, safety, and regulations. Additional courses provide opportunities to learn how UASs are integrated into numerous professional fields such as construction, engineering, agriculture, wildlife management, surveying, mapping/modeling, photography, and public safety. Graduates have opportunities to pursue careers in any of these fields as well as federal, state, and local government.

Program Requirements

CIP Code: 49.0101

Major

All aviation courses (AVN prefix) must be completed with a grade of “C” or above.

Code	Title	Hours
University Graduation Requirements		
General Education (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/)		36
Student Success Seminar		
GSD 101	Foundations of Learning	3
Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)		
Major Requirements		
Core Courses		
AVN 150	Introduction to Aviation	3
AVN 250	Air Transportation	3
AVN 315	Aviation Safety Programs	3
AVN 325	Aircraft Systems	3
AVN 329	Aviation Human Factors	3
AVN 335	Weather Reporting/Analysis	3

or GEO 315	Meteorology	
AVN 340	Airport Management I: Operations and Security	3
AVN 370	Aviation Supervision and Leadership	3
AVN 390	Aviation Decision Making	3
AVN 401	Airline Management	3
AVN 402	Corporate and Business Aviation	3
AVN 410	Air Traffic Control	3
AVN 460	Aviation Law	3
Concentrations		
Students must select one of the following Concentrations:		21-36
Professional Flight		
Aerospace Management		
Aerospace Technology		
Unmanned Aircraft Systems		
Supporting Course Requirements		
ECO 230	Fundamentals of Microeconomics (Element 5B) [G]	
MAT 112A & MAT 112B	Algebra: Polynomials and Algebra: Functions & Matrices (Element 2) [G]	
MGT 301	Principles of Management (NB)	3
PHY 101	Conceptual Physics (or higher)(Element 4) [G]	
TEC 161	Computer Applications in Technology	3
or INF 104	Computer Literacy with Software Applications	
Choose from one of the following:		
CMS 100	Introduction to Human Communication (Element 1C) [G]	
CMS 210	Public Speaking (Element 1C) [G]	
Free Electives		
Choose from 0-15 hours of free electives [1]		0-15
Total Hours		**120**

[1] Note: selecting only lower division courses may result in additional course work being needed to meet the University requirement of 42 hours of upper division credits. Students are referred to Degree Works to check for course pre-requisites and monitor upper division hours.

G Course also satisfies a General Education element. Supporting hours are included within the 36 hr. General Education requirement above.

Aerospace Management Concentration

Code	Title	Hours
Concentration Courses		
ACC 200	Survey of Accounting	3
AVN 341	Airport Management II: Planning and Administration	3
AVN 360	General Aviation Management	3
BUS 204	Fundamentals of Business Law and Ethics	3
ECO 231	Fundamentals of Macroeconomics	3
HLS 101	Introduction to Homeland Security	3
MKT 301	Principles of Marketing (NB)	3
Total Hours		**21**

Aerospace Technology Concentration

Code	Title	Hours
Concentration Courses		
AVN 360	General Aviation Management	3
AVN 435	Turbine Aircraft Systems	3
Choose from 25 hours of aviation technical electives		25
Total Hours		**31**

Professional Flight Concentration

Code	Title	Hours
Concentration Courses		
AVN 161	Private Pilot- Airplane: Ground (Part 61)	4
AVN 161A	Private Pilot- Airplane (Part 61): Flight I	1
AVN 162A	Private Pilot- Airplane (Part 61): Flight II	1
AVN 220	Instrument Pilot: Ground	4
AVN 221A	Instrument Pilot: Flight I	1
AVN 222A	Instrument Pilot: Flight II	1
AVN 280	Glass Cockpit Technology	1
AVN 300	Commercial Pilot: Ground	2
AVN 301A	Commercial Pilot- SEL: Flight I	2
AVN 302A	Commercial Pilot- SEL: Flight II	1
AVN 303A	Commercial Pilot- SEL: Flight III	1
AVN 304A	Commercial Pilot- SEL: Flight IV	2
AVN 305	Multi- Engine Pilot (MEL): Ground	1
AVN 305A	Multi- Engine: Flight	1
AVN 330	Crew Resource Management	3
AVN 415	Instructor Pilot- SEL: Ground	3
AVN 415A	Instructor Pilot- SEL: Flight	1
AVN 425	Applied Aerodynamics	3
AVN 435	Turbine Aircraft Systems	3
Total Hours		**36**

Unmanned Aircraft Systems Concentration

Code	Title	Hours
Concentration Courses		
AVN 105	UAS Safety and Regulations	3
AVN 107	Introduction to Unmanned Aircraft Systems	3
AVN 290	UAS Flight Operations	3
AVN 312	UAS Commercial Single/Multi En	3
AVN 330	Crew Resource Management	3
AVN 412	Counter UAS Operations	3
AVN 441	Surveying with UAS	3
AVN 442	UAS and Public Safety	3
AVN 443		3
AVN 444	Modeling and Mapping with UAS	3
AVN 445	UAS in Construction and Engineering	3
AVN 446	UAS in Agriculture and Wildlife Management	3
GEO 110	Environmental Geography	
or GEO 210	Introduction to Physical Geography	
Total Hours		**36**