



Aviation B.S. Degree

Aerospace Management Concentration

Aviation at EKU

EKU Aviation provides the aerospace industry with the safest, best trained, and most adaptable pilots and managers. The Bachelor of Science degree has concentrations in Professional Flight, Aerospace Management, or Aerospace Technology (AT). Besides a general aviation core, aviation students are required to take supporting courses in mathematics, statistics, physics, and business management. Graduates of the program are professionally prepared for all facets of the aerospace and aviation industry to include piloting, flight instruction, aviation management, and aerospace technology.

Professional Flight

The professional flight concentration is the only Federal Aviation Administration (FAA) approved university flight program in Kentucky. Students receive flight certification as Private, Instrument, Commercial, Instructor, and Multi Engine pilot. EKU is one of only a few programs authorized to award a 1,000 hour Restricted Airline Transport Pilot (R-ATP) certificate upon graduation. This advantage makes EKU aviation the premier choice for those interested in flying careers with the airlines, air charter companies, or military aviation.

Aerospace Management

Students prepare for careers at airports, airlines, corporate aviation, and government agencies such as the FAA, NASA and NTSB with hands-on training in operations, scheduling and dispatch for management professionals. Management graduates work in aviation marketing, public relations, human resources, safety and security at the local, national and international level. They also have the opportunity to receive certification as a AAAE Certified Member (AAAE CM) through the American Association of Airport Executives (AAAE).

Aerospace Technology

A leader in innovation, EKU Aviation is on the forefront of meeting market demands by offering a hard-to-find aviation degree-completion concentration. By adding upper division aerospace management and operations studies, the Bachelor's degree AT concentration is specifically designed to complete a 2-year community college degree with a heavy technical aviation course load. Examples of aviation technical degrees include Airframes & Power Plants (A&P) or any 2-year career technical (CTE) degree partnered with a local flight school. Additionally, non-degreed airline pilots with the Airline Transport Pilot (ATP) certificate may complete their bachelor's degree. This concentration is designed to be offered online throughout Kentucky and the US or on-campus in Richmond.

Aviation Careers

Boeing forecasts a shortage of hundreds of thousands of pilots over the next 20 years, and the U.S. Department of Labor projects employment of aircraft pilots to increase 5 percent through 2024. The "Age 65 Rule," which raised the retirement age from 60 to 65, has reintroduced a pilot shortage as the initial wave of already senior pilots begin to retire. In short, demand for air travel is expected to grow along with the population and the economy, and EKU Aviation is in a unique position to help meet this need. Additionally, in Kentucky, aviation professionals of all types are needed, as aviation and aerospace are quickly becoming signature industries for the state.

Department Facilities, Faculty and Student Organizations

The Department is located in the Ralph W. Whalin Technology Complex which includes approximately 100,000 square feet of classroom and laboratory space plus a simulator facility. The facilities are located in the central portion of campus, close to the library, classroom buildings and dormitories. Flight training is conducted primarily at the Central Kentucky Regional Airport (KRG). Faculty in the aviation program have real world industry experience ranging from military to airlines to corporate aviation and airport operations and management. Flight students receive flight training in accordance with FAR Part 141, saving time and money. Students may also participate in a variety of aviation student organizations including Alpha Eta Rho, an international professional co-ed aviation fraternity, a student chapter of the American Association of Airport Executives, a student chapter of Women in Aviation International, and the ALPA Ace Club each offering numerous events and networking opportunities throughout the year.

For More Information

EKU Aviation

859-622-1014 | <http://aviation.eku.edu> | email: fly@eku.edu |  EKUAviation |  @EKUAviation

Department of Applied Engineering and Technology

307 Whalin Complex | Eastern Kentucky University | 521 Lancaster Avenue | Richmond, KY 40475-3102



Suggested Curriculum Guide for Aerospace Management Concentration

Freshman (1st Semester) 16 hrs

- BTO 100*** Academic Orientation (1 hr)
- AVN 150** Introduction to Aviation
- TEC 161** Computer Applications in Technology
- E-1A** ENG 101* or 105* Written Communications
- E-3B** Humanities
- E-5A** Historical Perspective

Sophomore (1st Semester) 14 hrs

- ACC 201** Introduction to Financial Accounting
- AVN 315** Aviation Safety Programs
- STA 215** Elementary Probability & Statistics
- E-5B ECO 230** Principles of Economics I
- Free Elective** (2hrs)

Junior (1st Semester) 15 hrs

- AVN 325** Aircraft Systems
- AVN 340** Airport Management: Operations and Security
- GBU 204** Legal and Ethical environments of Business
- MKT 301** Principles of Marketing
- Free Elective** (3 hrs)

Senior (1st Semester) 15 hrs

- AVN 390** Aviation Decision Making
- AVN 402** Corporate & Business Aviation [Satisfies *Applied Critical and Creative Thinking (ACCT)* requirement]
- AVN 410** Air Traffic Control
- AVN 460** Aviation Legislation
- Free Elective** (3 hrs)

Freshman (2nd Semester) 15 hrs

- E-1B** ENG 102* Written Communications
- E-1C CMS 100/210** Communication (or **EES 250** Interpersonal Communications)
- E-2** MAT 112 or higher
- E-4** Natural Sciences
- E-3A** Arts

Sophomore (2nd Semester) 15 hrs

- ACC 202** Introduction to Managerial Accounting
- AVN 329W** Aviation Human Factors
- AVN 350** Air Transportation
- ECO 231** Principles of Economics II
- E-4 PHY 101** Concepts of the Physical World

Junior (2nd Semester) 15 hrs

- AVN 341** Airport Management: Finance and Administration
- AVN 360** General Aviation Management
- AVN 335** Weather reporting/Analysis or **GEO 315** Intro to Meteorology
- MGT 301** Principles of Management (or MGT 300 if business minor/major)
- E-6A** Diversity of Perspectives & Experiences
- BTS 300** Professional Skills Seminar (0 credit)***

Senior (2nd Semester) 15 hrs

- AVN 370** Aviation Supervision and Leadership
- AVN 401** Airline Management
- AVN 467** Aviation Exit Exam (0 credit)
- BTS 400** College to Careers Seminar (0 credit)***
- E-6B** Diversity of Perspectives & Experiences
- Free Electives** (6 hrs)

*Course must be taken in semester indicated. Transfer Students N/A.

***Spring Only

UNIVERSITY GRADUATION REQUIREMENTS

General Education	36 hrs
Student Success Seminar (BTO 100; waived for transfers with 30+ hrs).....	1 hr
Total Hours University Graduation Requirements	37 hrs
Free Electives	2 hrs

College Requirements:

BTS 300 (CR only, no hours) and BTS 400 (CR only, no hours).

Core Courses **36 hrs**

AVN 150, 315, 325, 329W, 340, 350, 370, 390, 401, 402, 410, 460, and 467 (0).

Concentration Requirements..... **33 hrs**

ACC 200, AVN 341, 360, ECO 231 GBU 204 and MKT 301 and 15 hours of free electives.

***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 DegreeWorks to check for course pre-requisites and monitor upper division course.

Supporting Course Requirements (not including those 12 hours also listed as Gen Ed) **12 hrs**

TEC 161, ECO 230 (GE Element 5B), AVN 335 or GEO 315, MAT 112 or higher (GE Element 2), MGT 301 (or MGT 300 only if business minor/major), PHY 101 or higher (GE Element 4), STA 215, CMS 100 or EES 250 (GE Element 1C)

Total Curriculum Requirements **120 hrs**

Note: Students must take an Aviation exit examination, AVN 467, before graduation.