



Aviation B.S. Degree

Professional Flight

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 an AAAE Certified Member (AAAE CM) through the American Association of Airport Executives (AAAE).

Aerospace Technology (AT)

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

The U.S. Department of Labor projects employment of aircraft pilots to increase five percent through 2024. The "Age 65 Rule," (Dec. 2007), will reintroduce the beginning of another pilot shortage in the next few years as the initial wave of already very senior pilots begin to retire. In the long run, demand for air travel is expected to grow along with the population and the economy. Median annual earnings of commercial pilots are around \$77,000. Average entry level incomes for management are \$30,000-\$40,000. EKU aviation graduates have found positions with Delta, PSA airlines, Envoy airlines Chautauqua Airlines, Jet Blue, Continental, Kentucky Department of Aviation, U.S. Military, San Antonio International Airport, L-3, Kentucky State Police, Louisville Police Department, and through self-employment.

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 Part 135 Operations. The new Flight Operations Office houses the very latest in flight locating, scheduling and dispatch. Flight students receive flight training in accordance with FAR Part 141, saving time and money. Aviation students may also participate in Alpha Eta Rho - an international professional co-ed fraternity.

For More Information

EKU Aviation

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

Department of Applied Engineering and Technology

307 Whalin Complex, Room 245 | Eastern Kentucky University | 521 Lancaster Avenue | Richmond, KY 40475-3102



Suggested Curriculum Guide for Professional Flight Concentration

Freshman (1st Semester) 15 hrs

BTO 100* Orientation (1 hr)
 AVN 150 Introduction to Aviation
 AVN 161 Private Pilot-SEL: Ground (4 hrs)
 AVN 161A Private Pilot-SEL: Flight I (1 hr)
 E-1A* ENG 101 or 105
 E-2 MAT 114 or higher

Sophomore (1st Semester) 14 hrs

AVN 222A Instrument Pilot: Flight II (1 hr)
 AVN 305 Multi-Engine Pilot-MEL: Ground (1 hr)
 AVN 315 Aviation Safety programs
 E-1C CMS 100/200 Communication (or EES 250 Interpersonal Communications)
 E-5B ECO 230 Principles of Economics I
 E-3B Humanities

Junior (1st Semester) 16 hrs

AVN 325 Aircraft Systems
 AVN 302A Commercial Pilot-SEL: Flight II (1 hr)
 MGT 301 Principles of Management (or MGT 300 if business minor/ major)
 Free Elective
 E-3A Arts
 E-6A Diversity of Perspective

Senior (1st Semester) 15 hrs

AVN 470 National Airspace System
 AVN 402 Corporate and Business Aviation
 AVN 410 Air Traffic Control
 AVN 421 Instrument & Multi-engine IP-Ground (2 hrs)
 AVN 423A Instructor Pilot Multi-engine: Flight (1 hr)
 AVN 435 Turbine Aircraft Systems

Freshman (2nd Semester) 14 hrs

AVN 162A Private Pilot-SEL: Flight II (1 hr)
 AVN 220 Instrument Pilot-SEL & MEL: Ground (4 hrs)
 TEC 161 Computer Systems
 E-1B* ENG 102
 E-4B PHY 101 or higher

Sophomore (2nd Semester) 15 hrs

AVN 300 Commercial Pilot-SEL & MEL: Ground (2 hrs)
 AVN 305A Private Pilot Multi-Engine: Flight (1 hr)
 AVN 330 Human Factors and Crew Resource Mgt
 GEO 315 Meteorology Or AVN 335 Weather Reporting/Analysis
 STA 215 Intro to Statistical Reasoning Or QMB 200 Business Statistical I
 E-4A Laboratory Life Science

Junior (2nd Semester) 14 hrs

AVN 303A Commercial Pilot-SEL: Flight III (1 hr)
 AVN 350 Air Transportation
 AVN 425 Applied Aerodynamics
 AVN 415 Instructor Pilot-SEL: Ground
 AVN 460 Aviation Legislation
 AVN 480 Glass Cockpit Technologies (1)
 BTS 300 Bus & Tech Seminar (0 credit)***

Senior (2nd Semester) 13 hrs

AVN 401 Airline Management
 AVN 416A Instructor & Commercial Pilot-SEL: Flight (1 hr)
 AVN 467 Aviation Exit Exam (0 credit)
 BTS 400 Bus & Tech Seminar (0 credit)**
 AVN 370 or 490 Airline Flight Operations
 E-5A Historical Perspective
 E-6B Diversity of Perspective

FR (3rd) 1 hr

AVN 221A Instrument Pilot: Flight I (1 hr)

SO (3rd) 1 hr

AVN 301A Commercial Pilot-SEL: Flight I (1 hr)

JR (3rd) 1 hr

AVN 304A Commercial Pilot-SEL: Flight IV (1 hr)

SR (3rd) 1 hr

AVN 421A Instrument Instructor SEL: Flight (1 hr)

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

UNIVERSITY GRADUATION REQUIREMENTS

General Education (9 Supporting hours are included within the 36 hrs of GE requirements).....	36 hrs
Student Success Seminar (BTO 100; waived for transfers with 30+ hrs)	1 hr
Free Elective	3 hrs
Total Hours University Graduation Requirements	40 hrs

College Requirements:

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

Core Courses34 hrs
 AVN 150, 161 (4), 315, 325, 340 or 470, 350, 370 or 490, 401, 402, 410, 460, and 467 (0).

Major Requirements34 hrs
 161A (1), 162A (1), 220 (4), 221A (1), 222A (1), 305 (1), 305A (1), 300 (2), 330, 301A (1), 302A (1), 303A (1), 304A (1), 415, 425, 435, 480 (1), and 416A (1), 421 (2), 421A (1), 423A (1), or AVN elective (5).

Supporting Course Requirements (not including those 9 hours also listed as Gen Ed)..... 12-14 hrs
 TEC 161; ECO 230 (GE Element 5B); AVN 335 or GEO 315; MAT 114 or higher (GE Element 2); MGT 301 (or MGT 300 only if business minor/major); PHY 101 or higher (GE Element 4); STA 215 or QMB 200; CMS 100 or EES 250

Total Curriculum Requirements 120-122 hrs

Note: Students must take an Aviation exit examination, AVN 467, before graduation. Also, one 3-credit course from the Gen Ed requirements must be a Writing Intensive course with a suffix of "W." Profight students may elect to replace the flight instructor sequence with 5 AVN elective credits and still graduate. Those interested in receiving the new 1000-hour power R-ATP certificate should consult the latest copy of the FAA Letter of Authorization and consult their advisor.