Aviation B.S. Degree
Aerospace Technology (AT) Concentration

2+2 Agreement: Southeast Kentucky Community & Technical College

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. Very few U.S. aviation programs offer 100 multiengine hours as part of the commercial pilot certificate training, coupled with an aviation bachelor's degree. This advantage makes EKU aviation the premier choice for those interested in flying careers with the airlines, air charter companies, or military aviation.

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), a 2-year helicopter and/or airplane proflight degree, 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 nine to ten percent through 2014. 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 $50,000. Average entry level incomes for management are $30,000-$40,000. EKU aviation graduates have found positions with Delta, 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 Madison County Airport (Identifier I39). 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
www.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 SKCTC AA degree and EKU Aerospace Technology (AT) Concentration - Professional Flight Program

**Freshman (1st Semester) 18 hrs**
- BIO 113 science lab (1 hr) (SKCTC)
- AVN Technical Elective (4)
- AVN Technical Elective (1)
- CIT 105 (SKCTC)
- KHP 230 or NFS 101 (SKCTC)
- ENG 101 (SKCTC)
- HIS 108 (SKCTC)

**Sophomore (1st Semester) 18 hrs**
- AVN Technical Elective
- AVN Technical Elective
- STA 215, 220, or 291 (SKCTC)
- PHY 151, 152, or 201 (SKCTC)
- ECO 201 (SKCTC)
- Any AH, SB, Foreign Language (SKCTC)

**Junior (1st Semester) 13 hrs**
- AVN 350 Introduction to Aviation
- AVN 392 Private Pilot Ground (4)
- AVN 315 Aviation Safety Programs
- AVN 325 Aircraft Systems

**Senior (1st Semester) 12 hrs**
- AVN 340 Airport Administration OR AVN 330 Human Factors & Crew Resource Management*
- AVN 390 Aviation Administration Decision Making OR AVN 470* National Air Space System
- AVN 402 Corporate & Business [Satisfies University Aviation Applied Critical and Creative Thinking (ACCT) requirement]
- AVN 410 Air Traffic Control

**Freshman (2nd Semester) 18 hrs**
- AVN Technical Elective
- AVN Technical Elective
- ENG 102 (SKCTC)
- COM 181 or COM 252 (SKCTC)
- MAT 150 (SKCTC)
- BIO 112 (SKCTC)

**Sophomore (2nd Semester) 18 hrs**
- AVN Technical Elective
- AVN Technical Elective
- ART 100, MUS 100, or ENG 161 (SKCTC)
- REL 130, HUM 202, or ENG 282 (SKCTC)
- Any AH, SB, Foreign Language (SKCTC)

**Junior (2nd Semester) 12 hrs**
- AVN 340 Human Factors & Crew Resource Management*
- AVN 390 Aviation Administration Decision Making OR AVN 470*
- BTS 300 Professional Skills Seminar (0 credit)
- GEO 251 (SKCTC)
- MGT 301 Principles of Management (or MGT 300 only if business minor/major) 0

**Senior (2nd Semester) 12 hrs**
- AVN 370 Techniques: Aviation Supervisors
- AVN 401 Airline Management
- AVN 435 Turbine Aircraft Systems
- AVN 460 Aviation Legislation
- AVN 467 Comprehensive Exam for BS in Aviation (0)
- BTS 400 College to Careers Seminar (0 credit)***

**UNIVERSITY REQUIREMENTS**

**EKU Only Course Requirements:**
- AVN 150, 315, 325, 340 OR 330*, 350, 360 OR 425*, 370, 390 OR 470*, 401, 402, 410, 435, 460, 467 (0); BTS 300 (0), 400 (0); MGT 301.
  *AVN 330, 425, and 470 must be taken by students interested in the FAA “1000-hour power” R-ATP certificate.

Total EKU only credits ......................................................................................................................... 42

Total EKU degree equivalent credits.................................................................................................... 120

**CREDIT SUMMARY**

SKCTC Equivalent EKU credits .......................................................................................................... 53
Bridge Credits taken at either institution .............................................................................................. 25
EKU only credits .................................................................................................................................. 42

**Total equivalent degree credits** .................................................................................................... 120

Note: Only 53 of SKCTC’s 60 Credits can be applied toward the EKU Aerospace Technology degree concentration. Thus, students will complete more than 120 total credits to complete the BS degree.

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.” Proflight students may elect to replace the flight instructor sequence with 3 AVN elective credits and still graduate. However, those interested in receiving the new “1000-hour power” R-ATP certificate must take AVN 421 from that sequence, at least one flight lab, i.e., AVN 416A, and another 3 credit AVN elective course. Additionally, AVN 470 must be taken by proflight students seeking the new 1000-hour Restricted ATP certification.

Eastern Kentucky University is an Equal Opportunity/Affirmative Action Employer and Educational Institution
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