

CURRICULUM GUIDE
Aviation, B.S. (Unmanned Aircraft System Concentration)
2022-2023

Website: www.technology.eku.edu
 Email Contact: dennis.field@eku.edu

Department of Applied Engineering and Technology
 521 Lancaster Ave.
 307 Whalin Complex
 Richmond, KY 40475
 859-622-3232

The schedule below is an **EXAMPLE** of how you can arrange your class schedule.
 Please consult your advisor for specific changes that may need to be made.

	Fall Semester		Spring Semester		Course Number	Course Name
Freshman Year	SCO 100	1	AVN 290	3	GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)	
	AVN 105	2	° PHY 101 (or higher) (fulfills Gen. Ed. 4)	3	SCO 100	Student Success Seminar (1)
	AVN 150	3	TEC 161	3	CORE COURSE REQUIREMENTS (36)	
	AVN 170	3	Gen. Ed 1B (ENG 102)	3	AVN 150	Introduction to Aviation (3)
	° MAT 112A and 112B (or higher) (fulfills Gen. Ed. 2)	3	* Gen. Ed. 4 (° GEO 110 or ° 210 recommended. This is a prereq. For upper-level GEO classes)	3	AVN 250	Air Transportation (3)
	Gen. Ed 1A (ENG 101)	3	TOTAL	15	AVN 315	Aviation Safety Programs (3)
	TOTAL	15	TOTAL	15	AVN 325	Aircraft Systems (3)
Sophomore Year	AVN 315	3	AVN 250	3	AVN 329W	Aviation Human Factors (3) (writing intensive)
	° CMS 100, ° 210 or ° EES 250 (fulfills Gen. Ed. 1C)	3	AVN 330	3	AVN 340	Airport Management I: Operations and Security (3)
	° ECO 230 (fulfills Gen. Ed. 5B)	3	GEO 353	3	AVN 370	Aviation Supervision and Leadership (3)
	Gen. Ed. 3A (Arts)	3	Gen. Ed. 5A (History)	3	AVN 390	Aviation Decision Making (3)
	Gen. Ed. 3B (Humanities)	3	Gen. Ed. 6 (Diversity)	3	AVN 399	Aviation Professional Skills Seminar (0)
	TOTAL	15	TOTAL	15	AVN 401	Airline Management (3)
	TOTAL	15	TOTAL	15	AVN 402	Corporate and Business Aviation (3)
Junior Year	AVN 310	3	AVN 312	3	AVN 410	Air Traffic Control (3)
	AVN 325	3	AVN 335 or ‡GEO 315	3-4	AVN 460	Aviation Law (3)
	AVN 329W	3	AVN 399	0	AVN 499	Aviation Careers Seminar (0) (spring only)
	AVN 340	3	AVN 425	3	UNMANNED AIRCRAFT SYSTEM CONCENTRATION REQUIREMENTS (36)	
	BIO 307 or MGT 301	3	GEO 458	3	AVN 105	UAS Safety and Regulations (3)
	TOTAL	15	Gen. Ed. 6 (Diversity)	3	AVN 170	Introduction to Unmanned Aircraft Systems (3)
	TOTAL	15	TOTAL	15-16	AVN 290	UAS Flight Operations (3)
Senior Year	AVN 390	3	AVN 370	3	AVN 310	UAS Ground/Flight Operations (3)
	AVN 402	3	AVN 401 (ACCT)	3	AVN 312	UAS Commercial Single/Multi Engine Ops (3)
	AVN 410	3	AVN 412	3	AVN 330	Crew Resource Management (3)
	GEO 456	3	AVN 460	3	AVN 412	Counter UAS Operations (3)
	GEO 501	3	AVN 467	0	AVN 425	Applied Aerodynamics (3)
	TOTAL	15	AVN 499	0	GEO 353	Geographic Information Systems (3)
	TOTAL	15	Free Elective	2-3	GEO 456	Remote Sensing (3)
TOTAL HOURS TO DEGREE COMPLETION				120	SUPPORTING COURSE REQUIREMENTS (9-10)	
					AVN 335 or GEO 315	Weather Reporting/Analysis (3)
					° ECO 230	Meteorology (3-4)
					° MAT 112A and ° MAT 112B (or higher)	Principles of Microeconomics (3)
					BIO 307 or MGT 301	Algebra: Polynomials (1.5)
					° PHY 101 (or higher)	Algebra: Functions and Matrices (1.5)
					° CMS 100 or ° CMS 210 or ° EES 250	Human Anatomy and Physiology I (3)
					TEC 161	Principles of Management (3)
						Conceptual Physics (3)
						Introduction to Human Communication (3)
						Public Speaking (3)
						Basic Social Intelligence Skills (3)
						Computer Applications in Technology (3)
					EXIT REQUIREMENT (0)	
					AVN 467	Comprehensive Exam for BS in Aviation (0)
					FREE ELECTIVES (2-3)	

* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses in your major. GEO 110 or 210 is strongly recommended in your freshman year as it is a prerequisite for upper-level geography classes. These courses also fulfill a Gen. Ed. 4.

‡ GEO 315 can be taken as either a 3-hour course (without lab) or a 4-hour course (with lab).

° Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300-level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories.

Refer to the University Catalog at <http://www.catalogs.eku.edu/> regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g. HUM 300W).

Applied Critical & Creative Thinking (ACCT) Requirement: Aviation majors will fulfill ACCT with AVN 401. (Credit hours are incorporated into program requirements.)