

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designed as critical (!) must be completed in the semester listed to ensure a timely graduation.

Critical	Course Subject and Title	Credit Hours	Min. Grade	Major GPA	Attribute	Notes
Semeste	r One [16 Credits]	Hours	Grade	GFA		
	MATH 11010 Algebra for Calculus	3			KMC	
	AERN 15000 Introduction to Aeronautics	3				
	AERN 15745 Non-Pilot Elements of Flight Theory	3				
	UC 10097 Destination Kent State: First Year Experience ¹	1				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semeste	r Two [15 Credits]					
!	MATH 11022 Trigonometry	3			KMC	
	AERN 25250 Elements of Aviation Weather	3				
	AERN 25350 Fundamentals of Air Traffic Control	2		-		
	AERN 25351 Fundamentals of Air Traffic Control Laboratory	1		-		
	COMM 15000 Introduction to Human Communication	3		-	KAD	
	TECH 20002 Materials and Processes	3			ICAD	
emeste	r Three [15 Credits]	5		-		
! !	PHY 13001 General College Physics I	4			KBS	
	PHY 13021 General College Physics Laboratory I	1			KBS	
•	AERN 20000 Professional Development in Aeronautics I	1		_	ND5	
	TECH 31000 Cultural Dynamics of Technology	3	C ²		DD/WIC	
	Kent Core Requirement	3	C	•	DD/WIC	
		3				
	Kent Core Requirement	3				
	r Four [14 Credits]	2			KDC	
!	PHY 13012 College Physics II ³	2			KBS	
	AERN 35150 Aircraft Structures	3				
	AERN 35340 Airport Management	3				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
semeste	r Five [16 Credits]					
	AERN 35020 Aircraft Propulsion Systems	3				
	AERN 35040 Aircraft Systems I	3				
	TECH 21021 Survey of Electricity and Electronics	4				
	Kent Core Requirement	3				
	General Electives ⁴	3				
emeste	r Six [16 Credits]					
	AERN 30000 Professional Development in Aeronautics II	1				
	AERN 35341 Air Transportation Systems	3				
	AERN 45030 Aircraft Systems II ²	3				
	AERN 45350 Avionics	3				
	General Electives ⁴	4				
emeste	r Seven [15 Credits]					
	AERN 45130 Physiology and Human Factors of Flight	3				
	AERN 45135 Aviation Safety Theory	3				
	AERN 45150 Applied Flight Dynamics I	3				
	AERN 45250 Aviation Law	3				
	General Electives ⁴	3				
emeste	r Eight [15 Credits]					
	AERN 45099 Aeronautical Studies Capstone	3	С		ELR	
	or AERN 45092 Aeronautical Internship/Cooperative Education			-		
	AERN 45291 Aerospace Senior Seminar	1	- 2			
	AERN 45791 Aviation Security and Policy Seminar	3	C ²		WIC	
	General Electives ⁴	8				

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum	
	30000 – 40000 level course	Minimum Kent Core Hours	Major GPA	Overall GPA
120	39	36	2.250	2.000



- 1. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission.
- 2. A minimum C grade must be earned in AERN 45791 or TECH 31000 to fulfill the writing-intensive requirement.
- 3. Students who successfully completed PHY 13002 will have met the requirement for 13012.
- 4. Total number of credit hours required depends on meeting minimum 120 credit hours and minimum 39 upper-division hours.

University Requirements: Bachelor's degree-seeking students must meet Kent Core (general education requirements), diversity, writing-intensive and experiential learning requirements. For more information about these requirements, please read the following sections in the University Catalog: Kent Core – <u>www.kent.edu/catalog/kent-core</u>; Diversity Course Requirement – <u>www.kent.edu/catalog/diversity</u>; Writing-Intensive Course Requirement – <u>www.kent.edu/catalog/diversity</u>; Writing-Intensive Course Requirement – <u>www.kent.edu/catalog/wic</u>; Experiential Learning Requirement – <u>www.kent.edu/catalog/diversity</u>; Writing-Intensive Course Requirement – <u>www.kent.edu/catalog/diversity</u>; Writing-Intensive Course Requirement – <u>www.kent.edu/catalog/wic</u>; Experiential Learning Requirement – <u>www.kent.edu/catalog/ler.</u>

Attribute Legend: DD Diversity–Domestic; DG Diversity–Global; ELR Experiential Learning; KAD Kent Core Additional; KBS Kent Core Basic Sciences; KCM Kent Core Composition; KFA Kent Core Fine Arts: KHU Kent Core Humanities; KMC Kent Core Mathematics and Critical Reasoning; KSS Kent Core Social Sciences; WIC Writing Intensive