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
Semester One [16 Credits]						
!	**AERN 15000 Introduction to Aeronautics**	**3**		■		
!	**MATH 11010 Algebra for Calculus**	**3**			KMC	
	AERN 25350 Fundamentals of Air Traffic Control	2		■		
	AERN 25351 Fundamentals of Air Traffic Control Laboratory	1		■		
	US 10097 Destination Kent State: First Year Experience [1]	1				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Two [14 Credits]						
Requirement: Student must have a 2.500 cumulative GPA prior to commencing flight training courses						
!	**AERN 15740 Elements of Flight Theory**	**5**		■		
!	**AERN 15741 Private Pilot Flight**	**3**		■		
!	**AERN 25250 Elements of Aviation Weather**	**3**		■		
!	**MATH 11022 Trigonometry**	**3**			KMC	
Semester Three [16 Credits]						
!	**AERN 25743 Commercial Pilot Flight I**	**2**		■		
!	**PHY 13001 General College Physics I**	**4**			KBS	
!	**PHY 13021 General College Physics Laboratory I**	**1**			KBS	
	COMM 15000 Introduction to Human Communication	3			KAD	
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Four [15 Credits]						
!	**AERN 35340 Airport Management**	**3**		■		
!	**AERN 35644 Instrument Flight Theory**	**3**		■		
!	**AERN 35645 Instrument Pilot Flight**	**2**		■		
!	**PHY 13012 College Physics II [2]**	**2**			KBS	
!	**PHY 13022 General College Physics Laboratory II**	**1**			KBS	
	AERN 20000 Professional Development in Aeronautics I	1		■		
	Kent Core Requirement	3				
Semester Five [15 Credits]						
!	**AERN 35040 Aircraft Systems I**	**3**		■		
!	**AERN 35647 Commercial Pilot Flight II**	**2**		■		
!	**AERN 35746 Commercial Pilot Theory**	**2**		■		
!	**AERN 35747 Commercial Pilot Flight III**	**2**		■		
!	**AERN 45150 Applied Flight Dynamics I**	**3**		■		
	Kent Core Requirement	3				
Semester Six [15 Credits]						
!	**AERN 35020 Aircraft Propulsion Systems**	**3**		■		
!	**AERN 45030 Aircraft Systems II [3]**	**3**		■		
!	**AERN 45130 Physiology and Human Factors of Flight**	**3**		■		
!	**AERN 45648 Theory of Flight Instruction**	**3**	C	■	ELR	
!	**AERN 45649 Flight Instructor/Airplanes**	**2**		■		
	AERN 30000 Professional Development in Aeronautics II	1		■		
Semester Seven [15 Credits]						
!	**AERN 45250 Aviation Law**	**3**		■		
!	**AERN 45651 Flight Instructor-Instruments**	**2**		■		
!	**AERN 45653 Multi-Engine Pilot Flight**	**1**		■		
!	**AERN 45720 Crew Resource Management**	**2**		■		
!	**AERN 45721 Crew Resource Management Laboratory**	**1**		■		
	AERN 45350 Avionics	3		■		
	Kent Core Requirement	3				

Critical	Course Subject and Title	Credit Hours	Min. Grade	Major GPA	Attribute	Notes
Semester Eight [14 Credits]						
!	**AERN 45291 Aerospace Senior Seminar**	**1**		■		
!	**AERN 45710 Turbine Engine Theory and Operation**	**2**		■		
!	**AERN 45711 Turbine Engine Theory and Operation Laboratory**	**1**		■		
!	**AERN 45791 Aviation Security and Policy Seminar**	**3**	C [3]	■	WIC	
	AERN 45135 Aviation Safety Theory	3		■		
	AERN 35150 Aircraft Structures *or* AERN 45730 Applied Transport Category Aircraft Systems *or* AERN 45740 Flight Management Systems	3		■		
	General Electives (lower or upper division)	1				

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours 30000 – 40000 level course	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
120	39	36	2.500	2.500

1. US 10097 is not required of transfer students with 25 credits (excluding College Credit Plus and dual-enrollment credit) or students age 21+ at time of admission.

2. Students who successfully completed PHY 13002 will have met the requirement for PHY 13012.

3. A minimum C grade must be earned to fulfill the writing-intensive requirement

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 – www.kent.edu/catalog/kent-core; Diversity Course Requirement – www.kent.edu/catalog/diversity; Writing-Intensive Course Requirement – www.kent.edu/catalog/wic; Experiential Learning Requirement – www.kent.edu/catalog/elr.

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