



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	Upper Div.	Min. Grade	Major GPA	Type	Term Taken
<b>Semester One [16 Credits]</b>							
!	AERN 15000 Introduction to Aeronautics	3			■		
!	AERN 15745 Non-Pilot Elements of Flight Theory	3			■		
	TECH 13580 Engineering Graphics I	3			■		
	US 10097 Destination Kent State: First Year Experience <sup>1</sup>	1					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Two [16 Credits]</b>							
!	MATH 12002 Analytic Geometry and Calculus I <sup>2</sup>	5				KMC	
!	PHY 23101 General University Physics I	5				KBS	
	AERN 25350 Fundamentals of Air Traffic Control	2			■		
	AERN 25351 Fundamentals of Air Traffic Control Laboratory	1			■		
	Kent Core Requirement	3					
<b>Semester Three [16 Credits]</b>							
!	MATH 12003 Analytic Geometry and Calculus II	5					
!	PHY 23102 General University Physics II	5				KBS	
	AERN 25250 Elements of Aviation Weather	3			■		
	Kent Core Requirement	3					
<b>Semester Four [16 Credits]</b>							
!	AERN 35040 Aircraft Systems I	3	■		■		
!	MATH 22005 Analytic Geometry and Calculus III	4					
	ECON 22060 Principles of Microeconomics	3				KSS	
	TECH 33111 Strength of Materials	3	■		■		
	Kent Core Requirement	3					
<b>Semester Five [16 Credits]</b>							
!	AERN 35340 Airport Management	3	■		■		
!	AERN 45150 Applied Flight Dynamics I	3	■		■		
	TECH 21021 Survey of Electricity and Electronics	4			■		
	TECH 33033 Hydraulics/Pneumatics	3	■		■		
	Kent Core Requirement	3					
<b>Semester Six [15 Credits]</b>							
!	AERN 45030 Aircraft Systems II <sup>3</sup>	3	■		■	WIC	
	AERN 45121 Advanced Aerospace Propulsion	3	■		■		
	AERN 45130 Physiology and Human Factors of Flight	3	■		■		
	COMM 15000 Introduction to Human Communication	3				KAD	
	TECH 36620 Project Management in Engineering and Technology	3	■		■		
<b>Semester Seven [12 Credits]</b>							
!	AERN 45151 Applied Flight Dynamics II	3	■		■		
!	AERN 45250 Aviation Law	3	■		■		
!	AERN 45350 Avionics	3	■		■		
!	AERN 45791 Aviation Security and Policy Seminar <sup>3</sup>	3	■		■	WIC	
<b>Semester Eight [14 Credits]</b>							
<b>Note: All students must successfully complete the comprehensive exit exam requirement prior to graduation with the B.S. in Aeronautics</b>							
!	AERN 45135 Aviation Safety Theory	3	■		■		
!	AERN 45700 Aircraft Design	4	■		■		
	AERN 45291 Aerospace Senior Seminar	1	■		■		
	TECH 47200 Systems Engineering	3	■		■		
	Kent Core Requirement	3					

### Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
121	39	36	2.250	2.000

1. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
2. Students not placed into MATH 12002 should take MATH 11010 and MATH 11022 (Kent Core courses) in first year of study.
3. A minimum C grade must be earned in AERN 45030 or AERN 45791 in order to fulfill the writing-intensive requirement

#### Special Major Note

Comprehensive Exit Exam: All students must successfully complete the comprehensive exit exam requirement prior to graduation with the B.S. in Aeronautics. Exit exam requirements are to be satisfied by all graduation candidates no later than the eighth week of the semester of intended graduation. The exit exams shall be offered during the fourth and eighth weeks of the fall and spring semesters. Students who fail will be allowed to retake the exit exams. An overall passing grade of 70 is required. Students who transfer into the aeronautics program and receive academic credit for core areas are still responsible for taking the exam in its entirety.



**University Requirements Summary**

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	<b>Kent Core I. Composition</b> Enrollment based on placement test	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	6
KMC	<b>Kent Core II. Mathematics and Critical Reasoning</b> Enrollment based on placement test	MATH 12002	fulfilled
KHU	<b>Kent Core III. Humanities</b> Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFA	<b>Kent Core IV. Fine Arts</b> Minimum one course from the fine arts; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFH	<b>Kent Core V. Humanities or Fine Arts</b> One additional course from either the humanities or fine arts category, may fulfill diversity requirement.		3
KSS	<b>Kent Core VI. Social Sciences</b> Must be selected from two curricular areas; may fulfill diversity requirement	ECON 22060	3
KBS	<b>Kent Core VII. Basic Sciences</b> Must include one laboratory	PHY 23101, PHY 23102	fulfilled
KAD	<b>Kent Core VIII. Additional</b> May fulfill diversity requirement	COMM 15000	3
DD	<b>Domestic Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	visit <a href="http://www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a>	one course
DG	<b>Global Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	visit <a href="http://www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a>	one course
ELR	<b>Experiential Learning Requirement</b> Either course or non-course experience approved by the appropriate faculty member	<a href="http://www.kent.edu/catalog/elr">www.kent.edu/catalog/elr</a>	one course or activity
WIC	<b>Writing-Intensive Course Requirement</b> Minimum C (2.000) grade	AERN 45030, AERN 45791	fulfilled