



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

Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
<b>Semester One: [16 Credit Hours]</b>					
<b>AERN 15000 Introduction to Aeronautics</b>	<b>3</b>			■	
<b>AERN 15745 Non-Pilot Elements of Flight Theory</b>	<b>3</b>			■	
<b>MATH 11010 Algebra for Calculus</b>	<b>3</b>				<b>Fulfills Kent Core Mathematics and Critical Reasoning</b>
US 10097 Destination Kent State: First Year Experience	1				Not required for transfer students with 25 credits
Kent Core Requirement	3				See Kent Core Summary on page 2
Kent Core Requirement	3				
<b>Semester Two: [15 Credit Hours]</b>					
AERN 25350 Fundamentals of Air Traffic Control	2			■	Must be taken together
AERN 25351 Fundamentals of Air Traffic Control Laboratory	1			■	
COMM 15000 Introduction to Human Communication	3				Fulfills Kent Core Additional
MATH 11022 Trigonometry	3				Fulfills Kent Core Additional
TECH 13580 Engineering Graphics I	3			■	
Kent Core Requirement	3				See Kent Core Summary on page 2
<b>Semester Three: [14 Credit Hours]</b>					
AERN 25250 Elements of Aviation Weather	3			■	
ECON 22060 Principles of Microeconomics	3				Fulfills Kent Core Social Sciences and minor requirement
PHY 13001 General College Physics I	4				Fulfills Kent Core Basic Sciences; must be taken together
PHY 13021 General College Physics I Laboratory	1				
Kent Core Requirement	3				See Kent Core Summary on page 2
<b>Semester Four: [15 Credit Hours]</b>					
<b>Note: declare the Management for Non-Business Majors minor</b>					
<b>AERN 35340 Airport Management</b>	<b>3</b>	■		■	
<b>MIS 24163 Principles of Management</b>	<b>3</b>	■		■	<b>Fulfills minor requirement</b>
ACCT 23020 Introduction to Financial Accounting	3			■	Fulfills minor requirement
ECON 22061 Principles of Macroeconomics	3				Fulfills Kent Core Additional
PHY 13012 College Physics II	2				Fulfills Kent Core Basic Sciences; must be taken together; PHY 13012 see note 1 on page 2
PHY 13022 General College Physics Laboratory II	1				
<b>Semester Five: [15 Credit Hours]</b>					
AERN 35341 Air Transportation Systems	3	■		■	
MIS 34165 Dynamics of Leadership	3	■		■	Fulfills minor requirement
MKTG 25010 Principles of Marketing	3			■	Fulfills minor requirement
TECH 31016 Manufacturing Technology	3	■		■	
Kent Core Requirement	3				See Kent Core Summary on page 2
<b>Semester Six: [15 Credit Hours]</b>					
<b>AERN 45791 Aviation Security and Policy Seminar</b>	<b>3</b>	■		■	<b>Fulfills writing-intensive requirement; see note 2 on page 2</b>
COMM 20001 Interpersonal Communication	3			■	Fulfills MGMN minor requirement
TECH 31000 Cultural Dynamics of Technology	3	■		■	Fulfills writing-intensive requirement; fulfills domestic diversity requirement; see note 2 on page 2
TECH 36620 Project Management in Engineering and Technology	3	■		■	
General Electives (upper division)	3	■			



**Critical requirements are boldface in shaded areas.**

Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
<b>Semester Seven: [15 Credit Hours]</b>					
<b>AERN 45150 Applied Flight Dynamics I</b>	<b>3</b>	■		■	
<b>AERN 45250 Aviation Law</b>	<b>3</b>	■		■	
AERN 45100 Operational Planning in Aviation	3	■		■	
AERN 45130 Physiology and Human Factors of Flight	3	■		■	
FIN 36053 Business Finance	3	■		■	Fulfills minor requirement
<b>Semester Eight: [15 Credit Hours]</b>					
<b>AERN 45291 Aerospace Senior Seminar</b>	<b>1</b>	■		■	
AERN 45135 Aviation Safety Theory	3	■		■	
AERN 45200 Strategic Aviation Management	3	■		■	
Kent Core Requirement	3				See Kent Core Summary on page 2
General Electives (lower or upper division)	6				Number of credits required depends on meeting minimum 124 credit hours and 39 upper-division credit hours

**Graduation Requirements Summary**

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Global / Domestic Diversity Course	Writing-Intensive	Experiential Learning	Minimum Major GPA	Overall GPA
121	39	36	Kent Core / TECH 31000	AERN 45791 or TECH 31000	Visit <a href="http://kent.edu/catalog/elr">kent.edu/catalog/elr</a>	2.250 2.500 in minor	2.000

**Kent Core Summary**

Kent Core Categories	Important Notes	Remaining Credit Hours
<b>Composition (6-8 credit hours)</b> <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i>	Enrollment based on placement test	6-8
<b>Mathematics and Critical Reasoning (3-5 credit hours)</b>	Fulfilled in this major with MATH 11010	0
<b>Humanities and Fine Arts (9 credit hours)</b> <i>Minimum one course from humanities in Arts and Sciences and minimum one course from fine arts</i>	May fulfill diversity requirement	9
<b>Social Sciences (6 credit hours)</b> <i>Must be selected from two curricular areas</i>	3 credits fulfilled in this major with ECON 22060	3
<b>Basic Sciences (6-7 credit hours)</b> <i>Must include one laboratory</i>	Fulfilled in this major with PHY 13001, 13012, 13021 and 13022	0
<b>Additional (6 credit hours)</b>	Fulfilled in this major with COMM 15000, ECON 22061, MATH 11022	0

**Note 1:** Students who successfully completed 13002 will have met the requirement for PHY 13012.

**Note 2:** A minimum C grade must be earned in either AERN 45791 or TECH 3100 to fulfill the writing-intensive requirement.

**Kent Core**

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student's major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit [www.kent.edu/catalog/kent-core](http://www.kent.edu/catalog/kent-core) for course list.

**Diversity Course Requirement**

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean's approval, by completing one semester of study in another country. Visit [www.kent.edu/catalog/diversity](http://www.kent.edu/catalog/diversity) for course list.

**Writing-Intensive Course Requirement**

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.00) grade. Visit [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic) for course list.

**Experiential Learning Requirement**

To provide students with direct engagement in learning experiences that promote academic relevance, meaning and an understanding of real-world issues, students must complete this requirement at Kent State, either as a for-credit course or as a non-credit, non-course experience approved by the appropriate faculty member. Visit [www.kent.edu/catalog/elr](http://www.kent.edu/catalog/elr) for course list.

**Upper-Division Requirement**

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.