



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
Semester One: [15 Credit Hours]					
AERN 15000 Introduction to Aeronautics	3			■	
AERN 15740 Elements of Flight Theory	5			■	
MATH 11010 Algebra for Calculus	3				Fulfills Kent Core Mathematics and Critical Reasoning
US 10097 Destination Kent State: First Year Experience	1				
Kent Core Requirement	3				See Kent Core Summary on page 2
Semester Two: [18 Credit Hours]					
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 Mathematics and Critical Reasoning
TECH 13580 Engineering Graphics I	3			■	
Kent Core Requirements	3				See Kent Core Summary on page 2
Kent Core Requirements	3				
Semester Three: [16 Credit Hours]					
AERN 25250 Elements of Aviation Weather	3			■	
ECON 22060 Principles of Microeconomics	3				Fulfills Kent Core Social Sciences and MGMN minor requirement
PHY 13011 College Physics I	2				Fulfills Kent Core Basic Sciences; must be taken together, PHY 13011 see note 1 on page 2
PHY 13021 General College Physics Laboratory I	1				
TECH 21021 Survey of Electricity and Electronics	4			■	
Kent Core Requirement	3				See Kent Core Summary on page 2
Semester Four: [15 Credit Hours]					
Note: declare the Non-Business Management minor					
AERN 35340 Airport Management	3	■		■	
MIS 24163 Principles of Management	3	■		■	Fulfills MGMN minor requirement
ACCT 23020 Introduction to Financial Accounting	3				Fulfills MGMN 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				
Semester Five: [15 Credit Hours]					
AERN 35341 Air Transportation Systems	3	■		■	
MIS 34165 Dynamics of Leadership	3	■		■	Fulfills MGMN minor requirement
MKTG 25010 Principles of Marketing	3			■	Fulfills MGMN minor requirement
TECH 31016 Manufacturing Technology	3	■		■	
Kent Core Requirement	3				See Kent Core Summary on page 2
Semester Six: [15 Credit Hours]					
AERN 45791 Aviation Security and Policy Seminar	3	■		■	Fulfills writing-intensive requirement; see note 2 on page 2
COMM 20001 Interpersonal Communication	3			■	Fulfills MGMN minor requirement
MIS 34180 Human Resource Management	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	■		■	



Critical requirements are boldface in shaded areas.

Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
Semester Seven: [15 Credit Hours]					
AERN 45150 Applied Flight Dynamics I	3	■		■	
AERN 45250 Aviation Law	3	■		■	
AERN 45100 Operational Planning in Aviation	3	■		■	
AERN 45130 Physiology and Human Factors of Flight	3	■		■	
FIN 36053 Business Finance	3	■		■	Fulfills MGMN minor requirement
Semester Eight: [15 Credit Hours]					
Note: All students must successfully complete the comprehensive exit exam requirement prior to graduation with the B.S. in Aeronautics.					
AERN 45291 Aerospace Senior Seminar	1	■		■	
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	5				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
124	39	36	TECH 31000 DD/ Kent Core	AERN 45791 or TECH 31000	Visit kent.edu/catalog/elr	2.250/2.500 is BUSN minor	2.000

Kent Core Summary

Kent Core Categories	Important Notes	Remaining Credit Hours
Composition (6-8 credit hours) <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i>	Enrollment based on placement test	6-8
Mathematics and Critical Reasoning (3-5 credit hours)	Fulfilled in this major with MATH 11010	0
Humanities and Fine Arts (9 credit hours) <i>Minimum one course from humanities in Arts and Sciences and minimum one course from fine arts</i>	May fulfill diversity requirement	9
Social Sciences (6 credit hours) <i>Must be selected from two curricular areas</i>	Fulfilled in this major with ECON 22060	3
Basic Sciences (6-7 credit hours) <i>Must include one laboratory</i>	Fulfilled in this major with PHY 13011, PHY 13012, PHY 13021 and PHY 13022	0
Additional (6 credit hours) <i>Must be selected from two Kent Core categories</i>	Fulfilled in this major with COMM 15000 and ECON 22061 or MATH 11022	0

Note 1: Students who successfully completed PHY 13001 and PHY 13002 will have met the requirement for PHY 13011 and PHY 13012.

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

Comprehensive Exit Exam: 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.

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 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 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 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 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.