

SUGGESTED THREE-YEAR GRADUATION PLAN

Roadmap: Aeronautics - Aeronautical Studies - Bachelor of Science

AT-BS-AERN-AEST

College of Applied Engineering, Sustainability and Technology

Catalog Year: 2014-2015



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
Post-Secondary Coursework or Credit By Examination Upon Entry as a Freshman: [31 Credit Hours]							
	AERN 15000 Introduction to Aeronautics	3			■		
	AERN 25250 Elements of Aviation Weather	3			■		
	MATH 11010 Algebra for Calculus ¹	3				KMC	
	MATH 11022 Trigonometry ¹	3				KAD	
	TECH 21021 Survey of Electricity and Electronics	4			■		
	Kent Core Composition ¹	6					
	Kent Core Social Sciences ¹	6					
	Kent Core Humanities and Fine Arts ¹	3					
Semester One [15 Credits]							
!	PHY 13001 General College Physics I	4				KBS	
!	PHY 13021 General College Physics Laboratory I	1				KBS	
	AERN 15745 Non-Pilot Elements of Flight Theory	3			■		
	TECH 20002 Materials and Processes	3			■		
	US 10097 Destination Kent State: First Year Experience ²	1					
	Kent Core Requirement	3					
Semester Two [14 Credits]							
!	PHY 13012 College Physics II³	2				KBS	
	AERN 25350 Fundamentals of Air Traffic Control	2			■		
	AERN 25351 Fundamentals of Air Traffic Control Laboratory	1			■		
	AERN 35040 Aircraft Systems I	3	■		■		
	AERN 35150 Aircraft Structures	3	■		■		
	COMM 15000 Introduction to Human Communication	3				KAD	
Semester Three [15 Credits]							
	AERN 35020 Aircraft Propulsion Systems	3	■		■		
	AERN 35340 Airport Management	3	■		■		
	AERN 45030 Aircraft Systems II	3	■		■		
	TECH 31000 Cultural Dynamics of Technology ⁴	3	■		■	DD/WIC	
	Kent Core Requirement	3					
Semester Four [15 Credits]							
	AERN 35341 Air Transportation Systems	3	■		■		
	AERN 45130 Physiology and Human Factors of Flight	3	■		■		
	AERN 45135 Aviation Safety Theory	3	■		■		
	AERN 45350 Avionics	3	■		■		
	General Elective (lower or upper-division credit hours)	3			■		
Semester Five [15 Credits]							
	AERN 45150 Applied Flight Dynamics I	3	■		■		
	AERN 45250 Aviation Law	3	■		■		
	AERN 45791 Aviation Security and Policy Seminar ⁴	3	■		■	WIC	
	General Elective (lower or upper-division credit hours)	6					
Semester Eight [15 Credits]							
Note: All students must successfully complete the comprehensive exit exam requirement prior to graduation with the B.S. in Aeronautics.							
	AERN 45099 Aeronautical Studies Capstone or AERN 45092 Aeronautical Internship/Cooperative Education	3	■		■	ELR	
	AERN 45291 Aerospace Senior Seminar	1	■		■		
	General Elective (lower or upper-division credit hours)	11					

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
120	39	36	2.250	2.000

- See list of Kent Core courses that can be earned through AP, CLEP or CBE exams on page 3
- US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
- Students who successfully completed PHY 13002 will have met the requirement for 13012.
- A minimum C grade must be earned in AERN 45791 or TECH 31000 to fulfill the writing-intensive requirement.

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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	Kent Core I. Composition Enrollment based on placement test	visit www.kent.edu/catalog/kent-core	6
KMC	Kent Core II. Mathematics and Critical Reasoning Enrollment based on placement test	MATH 11010	fulfilled
KHU	Kent Core III. Humanities Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFA	Kent Core IV. Fine Arts Minimum one course from the fine arts; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFH	Kent Core V. Humanities or Fine Arts One additional course from either the humanities or fine arts category, may fulfill diversity requirement.	visit www.kent.edu/catalog/kent-core	3
KSS	Kent Core VI. Social Sciences Must be selected from two curricular areas; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	6
KBS	Kent Core VII. Basic Sciences Must include one laboratory	PHY 13001, PHY 13012 and PHY 13021	fulfilled
KAD	Kent Core VIII. Additional May fulfill diversity requirement	COMM 15000, MATH 11022	fulfilled
DD	Domestic Diversity Course Requirement Either domestic or global diversity must be from Kent Core	TECH 31000	fulfilled
DG	Global Diversity Course Requirement Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
ELR	Experiential Learning Requirement Either course or non-course experience approved by the appropriate faculty member	AERN 45099	fulfilled
WIC	Writing-Intensive Course Requirement Minimum C (2.000) grade	TECH 31000, AERN 45791	fulfilled