

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
Semeste	r One [15 Credits]					
!	MATH 12002 Analytic Geometry and Calculus I	5	С		KMC	
	UC 10097 Destination Kent State: First Year Experience ¹	1				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semeste	r Two [16 Credits]					
!	MATH 12003 Analytic Geometry and Calculus II	5	С			
	CS 13001 Computer Science I-Programming and Problem Solving		-			
	or CS 13011 Computer Science IA-Procedural Programming (2) and	4	с			
	CS 13012 Computer Science IB-Object Oriented Programming (2)		С			
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semeste	r Three [15 Credits]					
!	MATH 22005 Analytic Geometry and Calculus III	4	С			
	PHY 23101 General University Physics I	5			KBS	
	Foreign Language ²	4 - 5				
	Kent Core Requirement	3				
Semeste	r Four [15 Credits]					
!	MATH 21001 Linear Algebra With Applications	3	С			
!	PHY 23102 General University Physics II	5	_		KBS	
-	Foreign Language ²	4 - 5				
	Kent Core Requirement	3				
Semeste	r Five [15 Credits]	0				
!	MATH 32044 Introduction to Ordinary Differential Equations	3				
!	MATH 32044 Introduction to Ordinary Differential Equations MATH 40011 Introduction to Probability Theory and Applications	3				
•	MATH 40011 Infroduction to Probability Theory and Applications MATH 42031 Mathematical Models and Dynamical Systems	3				
!	or MATH 42201 Introduction to Numerical Computing I	3	С			
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semeste	r Six [15 Credits]					
!	MATH 40012 Introduction to Statistical Concepts	3				
	MATH 42039 Modeling Projects		C ³	-	WIC/ELR	
!	or MATH 42202 Introduction to Numerical Computing II	3	-			
	Allied Area Electives ⁴	3				
	General Electives ⁵	6				
Semeste	r Seven [14 Credits]					
ļ	MATH 40051 Topics in Probability Theory and Stochastic Processes	3				
	MATH 42031 Mathematical Models and Dynamical Systems	•	•			
!	or MATH 42201 Introduction to Numerical Computing I	3	С			
	General Electives ⁵	8				
Semeste	r Eight [15 Credits]					
!	MATH 41021 Theory of Matrices	3				
!	MATH 42039 Modeling Projects or MATH 42202 Introduction to Numerical Computing II	3	C ³		WIC/ELR	
	Allied Area Electives ⁴	6				
	General Electives ⁵	3				

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum		
	30000 – 40000 level course	Minimum Kent Core Hours	Major GPA	Overall GPA	
120	42	36	2.000	2.000	



1. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission.

2. Fulfills College General Requirement.

3. A minimum C (2.000) grade must be earned in MATH 42039 to fulfill the writing-intensive requirement.

4. Allied Area Electives (9 credits)

Choose from the following:				
BSCI 3/4xxxx Biological Science courses	CHEM 3/4xxxx Chemistry courses			
CS 3/4xxxx Computer Science courses	MATH 3/4xxxx Mathematics courses			

PHY 3/4xxxx Physics courses

5. Number of general elective credit hours required depends on meeting minimum 120 credit hours and minimum 42 upper-division hours.

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

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