

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
emeste	er One [15 Credits]					
!	MATH 12002 Analytic Geometry and Calculus I	5	С		KMC	
	US 10097 Destination Kent State: First Year Experience ¹	1				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
emeste	r Two [15 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 CS 13012 Computer Science IB-Object Oriented Programming (2)	4	C C			
	Kent Core Requirement	3				
	Kent Core Requirement	3				
emeste	er Three [16 Credits]			I.		
!	MATH 22005 Analytic Geometry and Calculus III	4	С			
	CS 23001 Computer Science II-Data Structures and Abstraction	4				
	PHY 23101 General University Physics I	5			KBS	
	Kent Core Requirement	3				
emeste	Four [14 Credits]					
!	MATH 21001 Linear Algebra With Applications	3	С			
!	MATH 23022 Discrete Structures for Computer Science	3	С			
	PHY 23102 General University Physics II	5			KBS	
	Kent Core Requirement	3				
emeste	er Five [16 Credits]					
!	MATH 32044 Introduction to Ordinary Differential Equations	3				
-	MATH 42031 Mathematical Models and Dynamical Systems		•			
!	or MATH 42201 Introduction to Numerical Computing I	3	С			
	Foreign Language ²	4 - 5				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
emeste	er Six [16 Credits]	I				
!	MATH 41021 Theory of Matrices	3				
!	MATH 42039 Modeling Projects	3	C ³	_	WIC/ELR	
•	or MATH 42202 Introduction to Numerical Computing II	-				
	Foreign Language ²	4 - 5				
	General Electives ⁴	6				
emeste	er Seven [15 Credits]					
!	MATH 40011 Introduction to Probability Theory and Applications	3				
!	MATH 42031 Mathematical Models and Dynamical Systems or MATH 42201 Introduction to Numerical Computing I	3	С			
	Allied Area Electives ⁵	6				
	General Electives ⁴	3				
	er Eight [13 Credits]					
!	MATH 40012 Introduction to Statistical Concepts	3				
l	MATH 42039 Modeling Projects or MATH 42202 Introduction to Numerical Computing II	3	C ³		WIC/ELR	
	Allied Area Electives ⁵	3				
	General Electives ⁴	4				

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. US 10097 is not required of transfer students with 25 credits (excluding College Credit Plus and dual-enrollment) 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. Minimum 9 upper-division credit hours. Credit hours required depend on meeting minimum 120 credit hours and minimum 42 upper-division credit hours.

5. Allied Area Electives (9 credits)

Choose from the following:							
BSCI 3/4xxxx Biological Science upper-division courses (1 - 9)	CHEM 3/4xxxx Chemistry upper-division courses (1 - 9)						
CS 3/4xxxx Computer Science upper-division courses (1 - 9)	MATH 3/4xxxx Mathematics upper-division courses (1 - 9)						
PHY 3/4xxxx Physics upper-division courses (1 - 9)							

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