

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
Semester One [15 Credits]							
!	MATH 12002 Analytic Geometry and Calculus I	5			■	KMC	
	US 10097 Destination Kent State: First Year Experience ¹	1					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
Semester Two [15 Credits]							
!	MATH 12003 Analytic Geometry and Calculus II	5			■		
	CS 13001 Computer Science I-Programming and Problem Solving	4			■		
	Kent Core Requirement	3					
	Kent Core Requirement	3					
Semester Three [16 Credits]							
!	MATH 22005 Analytic Geometry and Calculus III	4			■		
	PHY 23101 General University Physics I	5			■	KBS	
	Foreign Language ²	4 - 5					
	Kent Core Requirement	3					
Semester Four [15 Credits]							
!	MATH 21001 Linear Algebra With Applications	3			■		
!	PHY 23102 General University Physics II	5			■	KBS	
	Foreign Language ²	4 - 5					
	Kent Core Requirement	3					
Semester Five [15 Credits]							
!	MATH 32044 Introduction to Ordinary Differential Equations	3	■		■		
!	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	■		■		
	Kent Core Requirement	3					
	Kent Core Requirement	3					
Semester Six [15 Credits]							
!	MATH 40012 Introduction to Statistical Concepts	3	■		■		
!	MATH 42091 Seminar: Modeling Projects ³ or MATH 42202 Introduction to Numerical Computing II	3	■		■	WIC	
	Allied Area Elective ⁴	3	■		■		
	General Elective ⁵	6					
Semester Seven [14 Credits]							
!	MATH 40041 Statistical Methods for Experiments or MATH 40042 Sampling Theory	3	■		■		
!	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	■		■		
	General Elective ⁵	5					
Semester Eight [15 Credits]							
!	MATH 41021 Theory of Matrices	3	■		■		
!	MATH 42091 Seminar: Modeling Projects ³ or MATH 42202 Introduction to Numerical Computing II	3	■		■	WIC	
	Allied Area Elective ⁴	6	■		■		
	General Elective ⁵	3	■				

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
120	42	36	2.000	2.000

- US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
- Fulfills College General Requirement
- A minimum C (2.000) grade must be earned in MATH 42091 to fulfill the writing-intensive requirement.
- Allied Area Elective (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)

- Minimum 3 upper-division credit hours. Credits required depends on meeting minimum 120 credit hours and minimum 42 upper-division credit hours



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 12002	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 23101, PHY 23102	fulfilled
KAD	Kent Core VIII. Additional May fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	6
DD	Domestic Diversity Course Requirement Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
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	visit www.kent.edu/catalog/elr	one course or activity
WIC	Writing-Intensive Course Requirement Minimum C (2.000) grade	MATH 42091	fulfilled