

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
<b>Semester One [15 Credits]</b>							
!	<b>MATH 12002 Analytic Geometry and Calculus I</b>	5			■	KMC	
	US 10097 Destination Kent State: First Year Experience <sup>1</sup>	1					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Two [15 Credits]</b>							
!	<b>MATH 12003 Analytic Geometry and Calculus II</b>	5			■		
	CS 13001 Computer Science I-Programming and Problem Solving	4			■		
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Three [16 Credits]</b>							
!	<b>MATH 22005 Analytic Geometry and Calculus III</b>	4			■		
	CS 23001 Computer Science II-Data Structures and Abstraction	4			■		
	PHY 23101 General University Physics I	5			■	KBS	
	Kent Core Requirement	3					
<b>Semester Four [14 Credits]</b>							
!	<b>MATH 21001 Linear Algebra With Applications</b>	3			■		
!	<b>MATH 23022 Discrete Structures for Computer Science</b>	3			■		
	PHY 23102 General University Physics II	5			■	KBS	
	Kent Core Requirement	3					
<b>Semester Five [16 Credits]</b>							
!	<b>MATH 32044 Introduction to Ordinary Differential Equations</b>	3	■		■		
!	<b>MATH 42031 Mathematical Models and Dynamical Systems or MATH 42201 Introduction to Numerical Computing I</b>	3	■		■		
	Foreign Language <sup>2</sup>	4 - 5					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Six [16 Credits]</b>							
!	<b>MATH 41021 Theory of Matrices</b>	3	■		■		
!	<b>MATH 42091 Seminar: Modeling Projects <sup>3</sup> or MATH 42202 Introduction to Numerical Computing II</b>	3	■		■	WIC	
	Foreign Language <sup>2</sup>	4 - 5					
	General Elective <sup>4</sup>	6					
<b>Semester Seven [15 Credits]</b>							
!	<b>MATH 40011 Introduction to Probability Theory and Applications</b>	3	■		■		
!	<b>MATH 42031 Mathematical Models and Dynamical Systems or MATH 42201 Introduction to Numerical Computing I</b>	3	■		■		
	Allied Area Electives <sup>5</sup>	6	■		■		
	General Elective <sup>4</sup>	3	■				
<b>Semester Eight [13 Credits]</b>							
!	<b>MATH 40012 Introduction to Statistical Concepts</b>	3	■		■		
!	<b>MATH 42091 Seminar: Modeling Projects <sup>3</sup> or MATH 42202 Introduction to Numerical Computing II</b>	3	■		■	WIC	
	Allied Area Electives <sup>5</sup>	3	■		■		
	General Elective <sup>4</sup>	4					

**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.
- Minimum 3 upper-division credit hours. Credits required depends on meeting minimum 120 credit hours and minimum 42 upper-division credit hours
- Allied Area Electives (9 credits)

<b>Choose from the following:</b>	
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 Summary**

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	<b>Kent Core I. Composition</b> Enrollment based on placement test	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	6
KMC	<b>Kent Core II. Mathematics and Critical Reasoning</b> Enrollment based on placement test	MATH 12002	fulfilled
KHU	<b>Kent Core III. Humanities</b> Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFA	<b>Kent Core IV. Fine Arts</b> Minimum one course from the fine arts; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFH	<b>Kent Core V. Humanities or Fine Arts</b> One additional course from either the humanities or fine arts category, may fulfill diversity requirement.	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KSS	<b>Kent Core VI. Social Sciences</b> Must be selected from two curricular areas; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	6
KBS	<b>Kent Core VII. Basic Sciences</b> Must include one laboratory	PHY 23101, PHY 23102	fulfilled
KAD	<b>Kent Core VIII. Additional</b> May fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	6
DD	<b>Domestic Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	visit <a href="http://www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a>	one course
DG	<b>Global Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	visit <a href="http://www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a>	one course
ELR	<b>Experiential Learning Requirement</b> Either course or non-course experience approved by the appropriate faculty member	visit <a href="http://www.kent.edu/catalog/elr">www.kent.edu/catalog/elr</a>	one course or activity
WIC	<b>Writing-Intensive Course Requirement</b> Minimum C (2.000) grade	MATH 42091	fulfilled