

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
<b>Semester One [15 Credits]</b>						
!	Computer Programming elective <sup>1</sup>	3 - 4		■		
!	MATH 12002 Analytic Geometry and Calculus I	5	C	■	KMC	
	UC 10097 Destination Kent State: First Year Experience <sup>2</sup>	1				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
<b>Semester Two [16 Credits]</b>						
!	MATH 12003 Analytic Geometry and Calculus II	5	C	■		
!	PHY 23101 General University Physics I	5		■	KBS	
	Kent Core Requirement	3				
	Kent Core Requirement	3				
<b>Semester Three [16 Credits]</b>						
!	MATH 21001 Linear Algebra With Applications	3	C	■		
!	MATH 22005 Analytic Geometry and Calculus III	4	C	■		
	Kent Core Requirement	3				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
<b>Semester Four [15 Credits]</b>						
!	MATH 41021 Theory of Matrices	3	C	■		
	Allied Area Electives <sup>3</sup>	6		■		
	Kent Core Requirement	3				
	General Electives	3				
<b>Semester Five [16 Credits]</b>						
!	MATH 41001 Introduction to Modern Algebra I	3	C <sup>4</sup>	■	WIC/ELR	
	Allied Area Electives <sup>3</sup>	3		■		
	Foreign Language <sup>5</sup>	4-5				
	General Electives <sup>5</sup>	6				
<b>Semester Six [16 Credits]</b>						
!	MATH 41002 Introduction to Modern Algebra II	3	C <sup>4</sup>	■	WIC/ELR	
	Allied Area Electives <sup>3</sup>	6		■		
	Foreign Language <sup>5</sup>	4-5				
	Kent Core Requirement	3				
<b>Semester Seven [13 Credits]</b>						
!	MATH 42001 Introduction to Analysis I	3	C <sup>4</sup>	■	WIC/ELR	
	Allied Area Electives <sup>3</sup>	3		■		
	CS or MATH elective (40000-level)	3		■		
	Kent Core Requirement	1				
	General Electives <sup>6</sup>	3				
<b>Semester Eight [13 Credits]</b>						
!	MATH 42002 Introduction to Analysis II	3	C <sup>4</sup>	■	WIC/ELR	
	CS or MATH elective (40000-level)	6		■		
	General Electives <sup>6</sup>	4				

### Graduation Requirements Summary

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

1. Computer Programming elective (3-4 credits)

Choose from the following:	
CS 10061 Introduction to Computer Programming (3)	CS 13001 Computer Science I-Programming and Problem Solving (4) <b>or</b> CS 13011 Computer Science IA-Procedural Programming (2) <b>and</b> CS 13012 Computer Science IB-Object Oriented Programming (2) <small>*If CS 13011 and CS 13012 are chosen to fulfill this requirement, students must earn a minimum grade of C (2.000) in both courses.</small>
DSCI 15310 Computational Thinking and Programming (3)	

2. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission  
3. Allied Area Electives (18 credits): must be approved by major advisor

Choose from the following:

BSCI 3/4xxxx BSCI upper-division courses (1 - 18)	CHEM 3/4xxxx CHEM upper-division courses (1 - 18)
CS 3/4xxxx CS upper-division courses (1 - 18)	ECON 3/4xxxx ECON upper-division courses (1 - 18)
GEOL 3/4xxxx GEOL upper-division courses (1 - 18)	MATH 3/4xxxx MATH upper-division courses (1 - 18)
MIS 3/4xxxx MIS upper-division courses (1 - 18)	PHY 3/4xxxx PHY upper-division (1 - 18)
PHIL 41035 Philosophy of Science (3)	PHIL 41038 Intermediate Logic (3)
PHIL 41045 Metalogic (3)	

4. A minimum C (2.000) grade must be earned in MATH 41001 or MATH 41002 or MATH 42001 or MATH 42002 to fulfill the writing-intensive requirement.  
5. Fulfills College General Requirement.  
6. 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 – [www.kent.edu/catalog/kent-core](http://www.kent.edu/catalog/kent-core); Diversity Course Requirement – [www.kent.edu/catalog/diversity](http://www.kent.edu/catalog/diversity); Writing-Intensive Course Requirement – [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic); Experiential Learning Requirement – [www.kent.edu/catalog/elr](http://www.kent.edu/catalog/elr).

**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