

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
Semester One [15 Credits]						
!	MATH 12002 Analytic Geometry and Calculus I	5	C	■	KMC	
	UC 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	C	■		
	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				
Semester Three [16 Credits]						
!	MATH 22005 Analytic Geometry and Calculus III	4	C	■		
	ECON 22060 Principles of Microeconomics	3			KSS	
	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	C	■		
!	PHY 23102 General University Physics II	5		■	KBS	
	ECON 22061 Principles of Macroeconomics	3			KSS	
	Foreign Language ²	4 - 5				
Semester Five [15 Credits]						
!	ACCT 23020 Introduction to Financial Accounting	3		■		
!	MATH 32044 Introduction to Ordinary Differential Equations	3	C	■		
!	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	C	■		
	Kent Core Requirement	3				
Semester Six [15 Credits]						
!	FIN 36053 Business Finance	3		■		
!	MATH 40012 Introduction to Statistical Concepts	3		■		
!	MATH 42045 Introduction to Partial Differential Equations	3		■		
!	MATH 42039 Modeling Projects or MATH 42202 Introduction to Numerical Computing II	3	C ³	■	WIC/ELR	
	General Electives ⁴	3				
Semester Seven [15 Credits]						
!	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	C	■		
	Kent Core Requirement	3				
	General Electives ⁴	6				
Semester Eight [14 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 ⁵	3		■		
	General Electives ⁴	5				

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. 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. Number of general elective credit hours required depends on meeting minimum 120 credit hours and minimum 42 upper-division hours.
5. Allied Area Electives (3 total credits hours)

Choose from the following:

BSCI 3/4xxxx Biological Sciences courses	CHEM 3/4xxxx Chemistry courses
CS 3/4xxxx Computer Science courses	MATH 3/4xxxx Mathematics courses
PHY 3/4xxxx Physics courses	ECON 32025 Money, Credit and Banking (3)
ECON 32040 Intermediate Microeconomic Theory and Applications (3)	ECON 32041 Intermediate Macroeconomic Theory and Policy (3)
ECON 32050 Applied Econometrics I (3)	FIN 36054 Intermediate Business Finance (3)
FIN 36059 Investments (3)	FIN 46054 Financial Risk Management (3)
FIN 46055 Options and Futures Markets (3)	FIN 46064 International Business Finance (3)
FIN 46067 Portfolio Analysis (3)	

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