

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
Semeste	er One [16 Credits]					
	CS 13001 Computer Science I-Programming and Problem Solving					
	or	4	С			
	CS 13011 Computer Science IA-Procedural Programming (2) and		-	_		
	CS 13012 Computer Science IB-Object Oriented Programming (2) MATH 12002 Analytic Geometry and Calculus I	5		_	KMC	
	US 10097 Destination Kent State: First Year Experience ¹	1			NIVIC	
	Kent Core Requirement	3				
	General Electives ²	3				
omosto	er Two [15 Credits]	3				
	CS 23001 Computer Science II-Data Structures and Abstraction	4	С	_		
!	CS 23001 Computer Science II-Data Structures and Abstraction	4	ل د			
!	MATH 12003 Analytic Geometry and Calculus II	5				
	Kent Core Requirement	3				
	er Three [13 Credits]	•				
!	CS 33211 Operating Systems	3				
!	CS 35101 Computer Architecture	3				
!	MATH Elective ³	3 - 4				
	Foreign Language ⁴	4 - 5				
	er Four [13 Credits]					
!	CS 33007 Introduction to Database System Design	3				
!	CS 35201 Computer Communication Networks	3				
	Foreign Language ⁴	4 - 5				
	Kent Core Requirement	3				
	er Five [15 Credits]					
!	CS 33901 Software Engineering	3				
!	CS 46101 Design and Analysis of Algorithms	3				
	Computer Science Electives ⁵	3				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
emeste	er Six [15 Credits]					
!	CS 33101 Structure of Programming Languages	3				
	Computer Science Electives ⁵	6				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
emeste	er Seven [16 Credits]					
!	CS 49901 Capstone Project	4	C 6		ELR/WIC	
	Computer Science Electives (one 40000-level) ⁵	6				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
emeste	er Eight [17 Credits]					
	Computer Science 40000-level Electives ⁵	6				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
-	General Electives ²	5				

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.



 Credits required depend on meeting minimum 120 credit hours and minimum 42 upper-division credit hours. Recommended: MATH 11022. Enrollment based on placement tests; prerequisites: MATH 11010 and 11022 may be bypassed with sufficient background. Otherwise, MATH 11022 Trigonometry is recommended as it is a prerequisite for MATH 12002.

3. Math Electives (3-4 credits)

Choose from the following:					
MATH 21001 Linear Algebra With Applications (3)	MATH 22005 Analytic Geometry and Calculus III (4)				
MATH 30011 Basic Probability and Statistics (3)					

4. Fulfills College General Requirement

5. 9 credit hours must come from a 40000-level course, concentration requirements, if chosen, fulfill 9 of the 21 total required hours Any CS 3/40000-level elective course, along with one or more of the following courses can be taken to satisfy this requirement:

MATH 22005 Analytic Geometry and Calculus III

MATH 40011 Introduction to Probability

Additionally, with the CS undergraduate advisor's prior permission, other select courses from outside the department may be counted. These courses must be computer science-related and/or integrate into the students program of study. Students may only apply three (3) credit hours of CS 33192 Internship in Computer Science to the CS Upper-Division Elective requirement.

6. A minimum C (2.000) grade must be earned in CS 49901 to fulfill the writing-intensive requirement.

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/wic</u>; Experiential Learning Requirement – <u>www.kent.edu/catalog/ler.</u>

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