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 [19 Credits]							
!	**CS 10061 Introduction to Computer Programming** **or DSCI 15310 Computational Thinking and Programming** **or EERT 22003 Technical Computing**	**3**					
!	**MERT 12000 Engineering Drawing**	**3**			■		
!	**MERT 12004 Manufacturing Processes**	**3**			■		
	MATH 11010 Algebra for Calculus	3				KMC	
	US 10097 Destination Kent State: First Year Experience [1]	1					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
Semester Two [18 Credits]							
!	**MERT 12001 Computer-Aided Drafting**	**3**			■		
!	**MERT 12005 Properties of Materials**	**3**			■		
!	**MERT 22012 Fluid Power**	**3**			■		
	COMM 15000 Introduction to Human Communication	3				KAD	
	MATH 11012 Intuitive Calculus	3			■	KMC	
	MATH 11022 Trigonometry	3				KAD	
Semester Three [17 Credits]							
!	**MERT 22003 Computer-Aided Tool Design**	**3**			■		
!	**MERT 22005 Statics**	**3**			■		
!	**MERT 22007 Strength of Materials**	**3**			■		
!	**EERT 22014 Microprocessors and Robotics**	**3**			■		
	PHY 13001 General College Physics I	4				KBS	
	PHY 13021 General College Physics Laboratory I	1				KBS	
Semester Four [19 Credits]							
!	**CADT 22003 Solid Modeling**	**2**			■		
!	**MERT 22004 Mechanics and Machine Design**	**3**			■		
!	**MERT 22009 Engineering Technology Project**	**2**			■		
	EERT 21010 Engineering and Professional Ethics (3) *or* IERT 22006 Economic Decision Analysis (3) *or* TECH 31010 Engineering and Professional Ethics (3)	3			■		
	ENG 20002 Introduction to Technical Writing *or* ITAP 26638 Business Communications	3					
	PHY 13002 General College Physics II *or* PHY 13012 College Physics II *and* PHY 13022 General College Physics Laboratory II	3-4				KBS	
	Kent Core Requirement	3					

Graduation Requirements Summary

Minimum Total Hours	Minimum	
	Major GPA	Overall GPA
73	2.000	2.000

1. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.

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	3
KMC	**Kent Core II. Mathematics and Critical Reasoning** Enrollment based on placement test	MATH 11010	fulfilled
KFH	**Kent Core III. Humanities and Fine Arts**	visit www.kent.edu/catalog/kent-core	3
KSS	**Kent Core IV. Social Sciences**	visit www.kent.edu/catalog/kent-core	3
KBS	**Kent Core V. Basic Sciences**	PHY 13001, PHY 13002	fulfilled