



This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation.

Course Subject and Title	Credit Hours	Min. Grade	Major GPA	Important Notes
<b>Semester One: [19 Credit Hours]</b>				
<b>CS 10061 Introduction to Computer Programming or DSCI 15310 Computational Thinking and Programming or EERT 22003 Technical Computing</b>	3			
<b>MERT 12000 Engineering Drawing</b>	3		■	
<b>MERT 12004 Manufacturing Processes</b>	3		■	
MATH 11010 Algebra for Calculus	3			Fulfills Kent Core Mathematics and Critical Reasoning
US 10097 Destination Kent State: First Year Experience	1			Not required of transfer students with 25 credits
Kent Core Requirement	3			See Kent Core Summary on page 2
Kent Core Requirement	3			See Kent Core Summary on page 2
<b>Semester Two: [18 Credit Hours]</b>				
<b>MERT 12001 Computer-Aided Drafting</b>	3		■	
<b>MERT 12005 Properties of Materials</b>	3		■	
<b>MERT 22012 Fluid Power</b>	3		■	
COMM 15000 Introduction to Human Communication	3			Fulfills Kent Core Additional for bachelor's degree
MATH 11012 Intuitive Calculus	3		■	Fulfills Kent Core Mathematics and Critical Reasoning
MATH 11022 Trigonometry	3			Fulfills Kent Core Additional for bachelor's degree
<b>Semester Three: [17 Credit Hours]</b>				
<b>MERT 22003 Computer-Aided Tool Design</b>	3		■	
<b>MERT 22005 Statics</b>	3		■	
<b>MERT 22007 Strength of Materials</b>	3		■	
<b>EERT 22014 Microprocessors and Robotics</b>	3		■	
PHY 13001 General College Physics I	4			Fulfills Kent Core Basic Sciences
PHY 13021 General College Physics Laboratory I	1			
<b>Semester Four: [19-20 Credit Hours]</b>				
<b>CADT 22003 Solid Modeling</b>	2		■	
<b>MERT 22004 Mechanics and Machine Design</b>	3		■	
<b>MERT 22009 Engineering Technology Project</b>	2		■	
EERT 21010 Engineering and Professional Ethics <b>or</b> IERT 22006 Economic Decision Analysis <b>or</b> TECH 31010 Engineering and Professional Ethics	3		■	
ENG 20002 Introduction to Technical Writing <b>or</b> ITAP 26638 Business Communication	3			
PHY 13002 General College Physics II (4) <b>or</b> PHY 13012 College Physics II (2) <b>and</b> PHY 13022 General College Physics Laboratory II (1)	3-4			Fulfills Kent Core Basic Sciences
Kent Core Requirement	3			See Kent Core Summary on page 2

**Graduation Requirements Summary**

Minimum Total Hours	Minimum	
	Major GPA	Overall GPA
73	2.000	2.000



**Kent Core Summary (visit [www.kent.edu/catalog/kent-core](http://www.kent.edu/catalog/kent-core) for course list)**

Kent Core Categories	Important Notes	Remaining Credit Hours
<b>Composition (3 credit hours)</b> <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i>	Enrollment based on placement test	3
<b>Mathematics and Critical Reasoning (3-5 credit hours)</b>	Fulfilled in this major with MATH 11010	0
<b>Humanities and Fine Arts (3 credit hours)</b>		3
<b>Social Sciences (3 credit hours)</b>		3
<b>Basic Sciences (3 credit hours)</b>	Fulfilled in this major with PHY 13001	0