



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: [16 Credit Hours]</b>				
<b>IERT 22010 Computer Integrated Manufacturing</b>	<b>3</b>		■	
<b>MERT 12000 Engineering Drawing</b>	<b>3</b>		■	
EERT 22003 Technical Computing	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 below
<b>Semester Two: [18 Credit Hours]</b>				
<b>IERT 22006 Economic Decision Analysis</b>	<b>3</b>		■	
<b>MERT 12001 Computer-Aided Drafting</b>	<b>3</b>		■	
<b>MERT 12004 Manufacturing Processes</b>	<b>3</b>		■	
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: [16-18 Credit Hours]</b>				
<b>EERT 22014 Microprocessors and Robotics</b>	<b>3</b>		■	
<b>IERT 22000 Statistical Process Controls</b>	<b>4</b>		■	
ENG 20002 Introduction to Technical Writing	3			
PHY 12201 Technical Physics I (3) or PHY 13001 General College Physics I (4) <b>and</b> PHY 13021 General College Physics Laboratory I (1)	3-5			Fulfills Kent Core Basic Sciences
Kent Core Requirement	3			See Kent Core Summary below
<b>Semester Four: [18-20 Credit Hours]</b>				
<b>MERT 22009 Engineering Technology Project</b>	<b>2</b>		■	
PHY 12202 Technical Physics II (4) or PHY 13002 General College Physics II (4) or PHY 13012 College Physics II (2)	2-4			Fulfills Kent Core Basic Sciences
PHY 13022 General College Physics Laboratory II	0-1			Not required if PHY 12201 and 12202 series is chosen
Technical Electives	10		■	See note 1 on page 2
Kent Core Requirement	3			See Kent Core Summary below

**Graduation Requirements Summary**

Minimum Total Hours	Minimum	
	Major GPA	Overall GPA
69	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 12201 and PHY 12202 or PHY 13001 and 13021	0



**Note 1: Technical electives (10 credit hours), choose from the following:**

COMT 21008 Computer Methods in Science and Engineering	3	IERT 22003 Supervision and Labor Relations	5
EERT 22004 Digital Systems	4	IERT 22004 Facilities Engineering	2
IERT 12005 Applications in CAD	2	IERT 22005 Production and Inventory Control	2
IERT 22001 Motion and Time Study	3	IERT 22008 Taguchi Process Improvement	3