KENT STATE UNIVERSITY

Roadmap: Mechanical Engineering Technology – Mechtronics – Associate of Applied Science
[RE-AAS-MERT-MCTR]
Regional College
Catalog Year: 2012-2013

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
Semester One: [19 Credit Hours]				
MERT 12000 Engineering Drawing	**3**		■	
MERT 12004 Manufacturing Processes	**3**		■	
BMRT 11000 Introduction to Business	3		■	
MATH 11010 Algebra for Calculus	3			Fulfills Kent Core Mathematics and Critical Reasoning
MATH 11022 Trigonometry	3			Fulfills Kent Core Additional for bachelor's degree
US 10097 Destination Kent State: First Year Experience	1			
Kent Core Requirement	3			See Kent Core Summary
Semester Two: [18 Credit Hours]				
MERT 12001 Computer Aided Drafting	**3**		■	
MERT 12005 Properties of Materials	**3**		■	
MATH 19002 Technical Mathematics II	4		■	
PHY 13001 General College Physics I	4			Fulfills Kent Core Basic Sciences
PHY 13021 General College Physics Laboratory I	1			
Kent Core Requirement	3			See Kent Core Summary
Semester Three: [16-18 Credit Hours]				
EERT 12000 Electric Circuits I	**4**		■	
CS 10061 Introduction to Computer Programming *or* **DSCI 15310 Computational Thinking and Programming** *or* **EERT 22003 Technical Computing**	**3**			
MERT 22009 Engineering Technology Project	**3**		■	
ENG 20002 Introduction to Technical Writing *or* ITAP 26638 Business Communications	3			
PHY 13002 General College Physics II (4) *or* PHY 13012 College Physics II (2) *and* PHY 13022 General College Physics Laboratory II (1)	3-4			Fulfills Kent Core Basic Sciences
Semester Four: [19 Credit Hours]				
EERT 12001 Electric Circuits II	**3**		■	
EERT 12010 Introduction to Electronics	**4**		■	
TECH 33031 Programmable Logic Controllers	**3**		■	
COMM 15000 Introduction to Human Communication	3			Fulfills Kent Core Additional for bachelor's degree
MERT 22012 Fluid Power	3		■	
Kent Core Requirement	3			

Graduation Requirements Summary

Minimum Total Hours	Minimum	
	Major GPA	Overall GPA
72	2.000	2.000

Kent Core Summary (visit www.kent.edu/catalog/kent-core for course list)

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