KENT STATE UNIVERSITY

Roadmap: Applied Engineering - Mechanical Engineering Technology - Bachelor of Science
AT-BS-AENG-MERT
College of Applied Engineering, Sustainability and Technology
Catalog Year: 2015-2016

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
Semester One [16 Credits]						
!	**MATH 11010 Algebra for Calculus**	**3**			**KMC**	
!	**TECH 10001 Information Technology**	**3**		■		
!	**TECH 13580 Engineering Graphics I**	**3**		■		
	US 10097 Destination Kent State: First Year Experience [1]	1				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Two [16 Credits]						
!	**MATH 11022 Trigonometry**	**3**			**KMC**	
!	**PHY 13001 General College Physics I**	**4**			**KBS**	
!	**TECH 23581 Computer-Aided Engineering Graphics**	**3**		■		
	COMM 15000 Introduction to Human Communication	3			KAD	
	Kent Core Requirement	3				
Semester Three [16 Credits]						
!	**TECH 20002 Materials and Processes**	**3**		■		
	MATH 12002 Analytic Geometry and Calculus I	5			KMC	
	PHY 13002 General College Physics II	4			KBS	
	Kent Core Requirement	3				
	Kent Core Basic Sciences Laboratory	1				
Semester Four [16 Credits]						
!	**TECH 21021 Survey of Electricity and Electronics**	**4**		■		
	ACCT 23020 Introduction to Financial Accounting	3				
	ENG 20002 Introduction to Technical Writing	3		■		
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Five [15 Credits]						
!	**TECH 33111 Strength of Materials**	**3**		■		
!	**TECH 33031 Programmable Logic Controllers**	**3**		■		
	CHEM 10050 Fundamentals of Chemistry	3			KBS	
	ECON 22060 Principles of Microeconomics	3			KSS	
	MIS 24163 Principles of Management [2]	3		■		
Semester Six [15 Credits]						
!	**TECH 31000 Cultural Dynamics of Technology**	**3**	**C** [3]	■	**WIC/DD**	
!	**TECH 33033 Hydraulics/Pneumatics**	**3**		■		
!	**TECH 31065 Cast Metals or TECH 33363 Metallurgy and Materials Science or TECH 43700 Computer Integrated Manufacturing**	**3**		■		
!	**TECH 34002 Advanced CAD II**	**3**		■		
	CS 10061 Introduction to Computer Programming	3		■		
Semester Seven [14 Credits]						
!	**TECH 43080 Industrial and Environmental Safety**	**3**		■		
!	**TECH 43550 Computer-Aided Manufacturing**	**3**		■		
	MIS 24056 Fundamentals of Business Statistics	3		■		
	MIS 34180 Human Resource Management	3		■		
	General Electives	2				
Semester Eight [12 Credits]						
!	**TECH 43580 Computer-Aided Machine Design**	**3**		■		
!	**TECH 43800 Applied Engineering Technology Seminar**	**3**		■	**ELR**	
!	**TECH 46330 Visual Basic Programming in Engineering Technology**	**3**		■		
	MIS 34060 Operations Management	3		■		

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours 30000 – 40000 level course	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
120	39	36	2.250	2.000

1. US 10097 is not required of transfer students with 25 credits (excluding College Credit Plus and dual-enrollment credit) or students age 21+ at time of admission.
2. Equivalent to BMRT 11009 Introduction to Management Technology
3. A minimum C (2.000) grade must be earned 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 – www.kent.edu/catalog/kent-core; Diversity Course Requirement – www.kent.edu/catalog/diversity; Writing-Intensive Course Requirement – www.kent.edu/catalog/wic; Experiential Learning Requirement – www.kent.edu/catalog/elr.

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