SUGGESTED THREE-YEAR GRADUATION PLAN

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
Post-Secondary Coursework or Credit By Examination Upon Entry as a Freshman: [30 Credit Hours]						
	ECON 22060 Principles of Microeconomics [1]	3			KSS	
	MATH 11010 Algebra for Calculus [1]	3			KMC	
	MATH 11022 Trigonometry [1]	3			KMC	
	PHY 13001 General College Physics I [1]	4			KBS	
	PHY 13002 General College Physics II [1]	4			KBS	
	TECH 10001 Information Technology	3		■		
	TECH 13580 Engineering Graphics I	3		■		
	TECH 21021 Survey of Electricity and Electronics	4		■		
	TECH 23581 Computer-Aided Engineering Graphics	3		■		
Semester One [15 Credits]						
!	**TECH 20002 Materials and Processes**	**3**		■		
!	**TECH 33031 Programmable Logic Controllers**	**3**		■		
	MATH 12002 Analytic Geometry and Calculus I	5			KMC	
	MIS 24056 Fundamentals of Business Statistics	3		■		
	US 10097 Destination Kent State: First Year Experience [2]	1				
!	**TECH 20002 Materials and Processes**	**3**		■		
Semester Two [15Credits]						
!	**TECH 31065 Cast Metals** **or TECH 33363 Metallurgy and Materials Science** **or TECH 43700 Computer Integrated Manufacturing**	**3**		■		
	CHEM 10050 Fundamentals of Chemistry	3			KBS	
	TECH 33033 Hydraulics/Pneumatics	3		■		
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Three [16 Credits]						
!	**TECH 33111 Strength of Materials**	**3**		■		
	MIS 24163 Principles of Management [3]	3		■		
	TECH 43550 Computer-Aided Manufacturing	3		■		
	TECH 46330 Visual Basic Programming in Engineering Technology	3		■		
	Kent Core Requirement	4				
Semester Four [15 Credits]						
!	**TECH 34002 Advanced CAD II**	**3**		■		
	ACCT 23020 Introduction to Financial Accounting	3				
	COMM 15000 Introduction to Human Communication	3			KAD	
	CS 10061 Introduction to Computer Programming	3		■		
	ENG 20002 Introduction to Technical Writing	3		■		
Semester Five [15 Credits]						
!	**TECH 31000 Cultural Dynamics of Technology**	**3**		■	**WIC/DD**	
!	**TECH 43080 Industrial and Environmental Safety**	**3**		■		
	MIS 34180 Human Resource Management	3		■		
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Six [14 Credits]						
!	**TECH 43580 Computer-Aided Machine Design**	**3**		■		
!	**TECH 43800 Applied Engineering Technology Seminar**	**3**		■		
	MIS 34060 Operations Management	3		■		
	Kent Core Requirement	3				
	General Electives	2				

KENT STATE
UNIVERSITY

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	2.000	2.000

1. See list of Kent Core courses that can be earned through AP, CLEP or CBE exams on page 3

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

3. Equivalent to BMRT 11009 Introduction to Management Technology

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