

RE-BS-ENGT-MSY Regional College Catalog Year: 2016-2017

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
	r One [17 Credits]					
	udents who have earned an associate degree will have 34 credits of technica not have to take the electives for a minor or individualized specialization.	l course	ework a	rticulate	to the bac	helor's degree progra
iiu wiii	CS 10061 Introduction to Computer Programming					
	or DSCI 15310 Computational Thinking and Programming	3		•		
	or EERT 22003 Technical Computing					
	MATH 11010 Algebra for Calculus	3			KMC	
	UC 10097 Destination Kent State: First Year Experience ¹	1				
	Kent Core Requirement	3				
	Applied Courses from Associate Degree, Minor or Individualized Specialization ²	7				
emeste	r Two [18 Credits]					
	MATH 11012 Intuitive Calculus	3			KMC	
	MATH 11022 Trigonometry	3			KMC	
	Kent Core Requirement	3				
	Applied Courses from Associate Degree, Minor or Individualized Specialization ²	9				
emeste	r Three [15-17 Credits]					
	ENG 20002 Introduction to Technical Writing	3				
	or ITAP 26638 Business Communications	Ŭ		-		
	PHY 12201 Technical Physics I (3)					
	PHY 13001 General College Physics I (4) and	3 - 5			KBS	
	PHY 13021 General College Physics Laboratory I (1)					
	Applied Courses from Associate Degree, Minor or Individualized Specialization ²	9				
emeste	r Four [18-19 Credits]					
	EERT 21010 Engineering and Professional Ethics	3				
	or TECH 31010 Engineering and Professional Ethics	3				
	PHY 12202 Technical Physics II (4)					
	Or DLIV 12012 College Dhysics II (2) and	3 - 4			KBS	
	PHY 13012 College Physics II (2) and PHY 13022 General College Physics Laboratory II (1)					
	Kent Core Requirement	3				
	Applied Courses from Associate Degree, Minor or Individualized Specialization ²	9				
ameste	r Five [13 Credits]	J				
! !	TECH 31020 Automated Manufacturing	3				
•	ECON 22060 Principles of Microeconomics	3			KSS	
	ITAP 26636 Project Management for Administrative Professionals	1			100	
	Mechanical/Systems Electives ³	3				
	·	3		•		
	Kent Core Requirement	3				
emeste !	r Six [12 Credits] TECH 36620 Project Management in Engineering and Technology	2				
		3				
!	TECH 33363 Metallurgy and Materials Science	3				
	Mechanical/Systems Electives ³	6				
	r Seven [12 Credits]	0				
!	TECH 32002 Materials and Processes II	3				
	Mechanical/Systems Electives ³	6				
	Kent Core Requirement	3				
	r Eight [14-15 Credits]					
!	TAS 47900 Technical and Applied Studies Capstone	3	С		ELR	
!	TECH 31000 Cultural Dynamics of Technology	2-3	C ⁴		DD/WIC	
	or TECH 33092 Cooperative Education - Professional Development TECH 43080 Industrial and Environmental Safety	2			ELR/WIC	
	·	3				
	Kent Core Requirement Mechanical/Systems Electives ³	3				
	General Elective 5	3				
	General Elective	0 - 1				

Graduation Requirements Summary

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



Roadmap: Engineering Technology - Mechanical/Systems - Bachelor of Science

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- 1. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission.
- 2. Applied Courses from Associate Degree, Minor or Individualized Specialization (34 credit hours)

Choose from the following:			
CADT 22003 Solid Modeling (3)	EERT 22014 Microprocessors and Robotics (3)		
ENGT 22006 Economic Decision Analysis (3)	Any MERT course		
Others by program director approval			

3. Mechanical/Systems Electives (9 credits from group 1 and 9 credits from group 2)

Group 1 (9 credits) choose from the following:	Group 2 (9 credits) choose from the following:
GAE 32000 Fuel Cell Technology (3)	EERT 32005 Instrumentation (3)
MERT 42000 Thermodynamics for Engineering Technology (3)	GAE 42003 Lean Manufacturing, Six Sigma and Operations Technology (3)
MERT 43001 Dynamics for Engineering Technology (3)	TECH 32101 Polymers I (3)
TECH 31032 Power Technology (3)	TECH 34002 Advanced CAD II (3)
TECH 31067 Machining Technology I (3)	
TECH 33016 PC/Network Engineering and Troubleshooting (3)	
TECH 33033 Hydraulics/Pneumatics (3)	
TECH 33700 Quality Techniques (3)	
TECH 34002 Advanced CAD II (3)	
TECH 43220 Electrical Machinery (3)	
TECH 43550 Computer-Aided Manufacturing (3)	

- 4. To fulfill the writing-intensive requirement, either TECH 31000 or TECH 33056 must be earned with minimum C (2.000) grade.
- 5. Credits required depend on meeting minimum 120 credit hours and minimum 39 upper-division credit hours.

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/kent-core; 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