Roadmap: Manufacturing Engineering Technology - Associate of Applied Science



RE-AAS-MFET Regional College

Catalog year: 2014-2015

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.

Critica	Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Туре	Term Taken
Semes	ter One [19 Credits]						
!	EERT 22000 Electricity/Electronics With Applications	3					
!	MERT 12000 Engineering Drawing	3					
	EERT 22003 Technical Computing	3					
	MATH 11010 Algebra for Calculus	3				KMC	
	US 10097 Destination Kent State: First Year Experience 1	1					
	Kent Core Requirement	3					
	Kent Core Requirement	3					
Semes	ter Two [17 Credits]						
!	EERT 22002 Industrial Controls	3					
!	MERT 12001 Computer-Aided Drafting	3					
!	MERT 12005 Properties of Materials	3					
!	MFGT 12010 Safety in the Workplace	2					
	COMM 15000 Introduction to Human Communication	3				KAD	
	MATH 11022 Trigonometry	3				KMC	
Semes	ter Three [19 Credits]						
!	IERT 12005 Applications in Computer-Aided Design	2					
!	IERT 22010 Computer Integrated Manufacturing	3					
!	MERT 22012 Fluid Power	3					
	ENG 20002 Introduction to Technical Writing	3					
	PHY Series ²	5				KBS	
	Automated Machining or Industrial Automation Option ³	3					
Semes	ter Four [16 Credits]						
!	MERT 12004 Manufacturing Processes	3					
!	MFGT 21001 Standard Design Practice for Manufacturing Technology	3					
	IERT 22000 Statistical Process Control	4					
	PHY Series ²	0 - 2				KBS	
	Automated Machining or Industrial Automation Option ³	3					
	Kent Core Requirement	3					

Graduation Requirements Summary

Minimum Total Hours	Minimum			
Willimum Total Hours	Major GPA	Overall GPA		
71	2.000	2.000		

- 1. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
- 2. Science Series choose from one of the following options (5-7 credit hours)

Physics Option I		Physics Option II		
PHY 13001 General College Physics I*(4) and	or	PHY 13002 General College Physics II * (4) and		
PHY 13012 College Physics II * (2) and		PHY 13022 General College Physics Laboratory II (1)		
PHY 13021 General College Physics Laboratory I (1)				

*Students who successfully completed PHY 13001 and 13002 will have met the requirement for PHY 13011 and 13012. PHY 13012 will be taken in Semester 4

3. Automated machining or industrial automation option (6 credit hours), choose one option:

Automated Machining Option (6 credits)	Industrial Automation Option (6 credits)		
MFGT 13001 Computer Numerical Control Programming (3)	EERT 22007 Industrial Motor Control and Application (3)		
MFGT 23001 Computer-Aided Manufacturing (3)	MFGT 22014 Advanced Industrial Electronics (3)		

University Requirements Summary

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Туре	Categories	Course(s) Satisfying Category	Remaining Requirements		
KCM	Kent Core I. Composition Enrollment based on placement test	visit www.kent.edu/catalog/kent-core	3		
KMC	Kent Core II. Mathematics and Critical Reasoning Enrollment based on placement test	MATH 11010	fulfilled		
KFH	Kent Core III. Humanities and Fine Arts	visit www.kent.edu/catalog/kent-core	3		
KSS	Kent Core IV. Social Sciences	visit www.kent.edu/catalog/kent-core	3		
KBS	Kent Core V. Basic Sciences	Fulfilled with Science Series selection	fulfilled		