

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			Attribute	Notos
	•	Hours	Grade	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	rticula	te to the ba	chelor's degree progr
	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			КМС	
	UC 10097 Destination Kent State: First Year Experience <sup>1</sup>	1			NIVIC	
	Kent Core Requirement	3				
	Applied Courses from Associate Degree, Minor or Individualized Specialization <sup>2</sup>	7				
mosto	r Two [18 Credits]	1				
emeste	MATH 11012 Intuitive Calculus	2			KMC	
		3			KMC KMC	
	MATH 11022 Trigonometry	3			NIVIC	
	Kent Core Requirement	3				
	Applied Courses from Associate Degree, Minor or Individualized Specialization <sup>2</sup>	9				
emeste	r Three [15-17 Credits] EERT 21010 Engineering and Professional Ethics					
	or TECH 31010 Engineering and Professional Ethics	3				
	PHY 12201 Technical Physics I (3) <sup>3</sup>					
	or	25			KBS	
	PHY 13001 General College Physics I (4) <sup>3</sup> and	3-5			ND3	
	PHY 13021 General College Physics Laboratory I (1) <sup>3</sup>					
	Kent Core Requirement	3				
	Applied Courses from Associate Degree, Minor or Individualized Specialization <sup>2</sup>	6				
emeste	r Four [18-19 Credits]			1	,	
	ENG 20002 Introduction to Technical Writing	3				
	<i>or</i> ITAP 26638 Business Communications PHY 12202 Technical Physics II (4) <sup>3</sup>					
	or					
	PHY 13012 College Physics II (2) <sup>3</sup> and	3-4			KBS	
	PHY 13022 General College Physics Laboratory II (1) <sup>3</sup>					
	Applied Courses from Associate Degree, Minor or Individualized Specialization <sup>2</sup>	12				
emeste	r Five [13 Credits]					
!	GAE 32000 Fuel Cell Technology	3				
	ECON 22060 Principles of Microeconomics	3			KSS	
	ITAP 26636 Project Management for Administrative Professionals	1				
	Green and Alternative Energy Elective <sup>4</sup>	3				
	Kent Core Requirement	3				
emeste	r Six [15 Credits]					
!	TECH 36620 Project Management in Engineering and Technology	3				
!	TECH 33363 Metallurgy and Materials Science	3				
	Green and Alternative Energy Elective <sup>4</sup>	3				
	Kent Core Requirement	3				
	General Elective <sup>5</sup>	3				
emeste	r Seven [11-12 Credits]					
!	GAE 42004 Advanced Fuel Cell Technology	3				
	Green and Alternative Energy Elective <sup>4</sup>	3				
	Kent Core Requirement	3				
	General Elective <sup>5</sup>	2-3				
emeste	r Eight [11 Credits]	-	I	I 		
!	TAS 47900 Technical and Applied Studies Capstone	3	С		ELR	
	TECH 31000 Cultural Dynamics of Technology				DD/WIC	
!	or TECH 33092 Cooperative Education - Professional Development	2-3	C 6		ELR/WIC	
!	TECH 43080 Industrial and Environmental Safety	3				
	Green and Alternative Energy Elective <sup>4</sup>	3				



## **Graduation Requirements Summary**

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

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:				
Any GAE course	Any EERT course			
ENGT 12005 Applications in Computer-Aided Design (2)	ENGT 22006 Economic Decision Analysis (3)			
Any MERT course	Others by program director approval			

3. If PHY 12201 is taken in semester three, PHY 12202 must be taken in semester four. If PHY 13001 and PHY 13021 are taken in semester three, PHY 13012 and PHY 13022 must be taken in semester three.

4. Green and Alternative Energy Elective (12 credit hours)

Choose from the following:					
EERT 32005 Instrumentation (3)	TECH 31020 Automated Manufacturing (3)				
5, 5 <u>,</u> ()	MERT 42000 Thermodynamics for Engineering Technology (3)				
or TECH 42100 Training Topics in Technology (1 - 4)	TECH 31032 Power Technology (3)				
GAE 42003 Lean Manufacturing, Six Sigma and Operations Technology (3)					

5. Credits required depend on meeting minimum 120 credit hours and minimum 39 upper-division credit hours.

6. To fulfill the writing-intensive requirement, either TECH 31000 or TECH 33056 must be earned with minimum C (2.000) grade.

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 – <u>www.kent.edu/catalog/kent-core</u>; Diversity Course Requirement – <u>www.kent.edu/catalog/diversity</u>; Writing-Intensive Course Requirement – <u>www.kent.edu/catalog/wic</u>; Experiential Learning Requirement – <u>www.kent.edu/catalog/diversity</u>; Writing-Intensive Course Requirement – <u>www.kent.edu/catalog/wic</u>; Experiential Learning Requirement – <u>www.kent.edu/catalog/diversity</u>; Writing-Intensive Course Requirement – <u>www.kent.edu/catalog/wic</u>; Experiential Learning Requirement – <u>www.kent.edu/catalog/ler.</u>

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