

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
<b>Semester One [16 Credits]</b>						
!	<b>MATH 11010 Algebra for Calculus</b>	3			KMC	
!	<b>TECH 10001 Information Technology</b>	3		■		
!	<b>TECH 20002 Materials and Processes</b>	3		■		
	TECH 13580 Engineering Graphics I	3		■		
	UC 10097 Destination Kent State: First Year Experience <sup>1</sup>	1				
	Kent Core Requirement	3				
<b>Semester Two [15 Credits]</b>						
!	<b>MATH 11022 Trigonometry</b>	3			KMC	
!	<b>TECH 23581 Computer-Aided Engineering Graphics</b>	3		■		
	COMM 15000 Introduction to Human Communication	3			KAD	
	PSYC 11762 General Psychology	3			DD/KSS	
	Kent Core Requirement	3				
<b>Semester Three [14 Credits]</b>						
!	<b>MIS 24056 Fundamentals of Business Statistics</b>	3		■		
!	<b>PHY 13001 General College Physics I</b>	4			KBS	
!	<b>PHY 13021 General College Physics Laboratory I</b>	1			KBS	
!	<b>TECH 31016 Manufacturing Technology</b>	3		■		
	ENG 20002 Introduction to Technical Writing	3		■		
<b>Semester Four [17 Credits]</b>						
!	<b>PHY 13002 General College Physics II</b>	4			KBS	
!	<b>PHY 13022 General College Physics Laboratory II</b>	1			KBS	
!	<b>TECH 31065 Cast Metals</b>	3		■		
!	<b>TECH 33033 Hydraulics/Pneumatics</b>	3		■		
	ECON 22060 Principles of Microeconomics	3			KSS	
	Kent Core Requirement	3				
<b>Semester Five [16 Credits]</b>						
!	<b>TECH 21021 Survey of Electricity and Electronics</b>	4		■		
	PSYC 31773 Industrial Psychology	3				
	TECH 31000 Cultural Dynamics of Technology	3	C <sup>3</sup>	■	DD/WIC	
	TECH 31020 Automated Manufacturing	3		■		
	TECH 33700 Quality Techniques	3		■		
<b>Semester Six [15 Credits]</b>						
!	<b>TECH 33031 Programmable Logic Controllers</b>	3		■		
	TECH 33870 Facility Design and Material Handling	3		■		
	TECH 36620 Project Management in Engineering and Technology	3		■		
	Kent Core Requirement	3				
	Kent Core Requirement	3				
<b>Semester Seven [15 Credits]</b>						
!	<b>TECH 20001 Energy/Power</b>	3		■		
	TECH 43060 Management of Technology Innovation	3		■		
	TECH 43550 Computer-Aided Manufacturing	3		■		
	General Electives <sup>3</sup>	6				
<b>Semester Eight [12 Credits]</b>						
	TECH 43080 Industrial and Environmental Safety	3		■		
	TECH 43800 Applied Engineering Technology Seminar	3		■	ELR	
	General Electives <sup>3</sup>	6				

**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. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission.
2. A minimum C (2.000) grade must be earned to fulfill the writing-intensive requirement.
3. Number of credits required depends on meeting minimum 120 credit hours and 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](http://www.kent.edu/catalog/kent-core); Diversity Course Requirement – [www.kent.edu/catalog/diversity](http://www.kent.edu/catalog/diversity); Writing-Intensive Course Requirement – [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic); Experiential Learning Requirement – [www.kent.edu/catalog/elr](http://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