

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	Upper Div.	Min. Grade	Major GPA	Type	Term Taken
<b>Semester One [15 Credits]</b>							
!	MATH 12002 Analytic Geometry and Calculus I	5				KMC	
!	TECH 13580 Engineering Graphics I	3			■		
!	PHY 23101 General University Physics I	5				KBS	
	US 10097 Destination Kent State: First Year Experience <sup>1</sup>	1					
	TECH Electives <sup>2</sup>	1			■		
<b>Semester Two [14 Credits]</b>							
!	MATH 12003 Analytic Geometry and Calculus II	5					
!	PHY 23102 General University Physics II	5				KBS	
	TECH 10001 Information Technology	3			■		
	TECH Electives <sup>2</sup>	1			■		
<b>Semester Three [15 Credits]</b>							
!	CHEM 10060 General Chemistry I	4				KBS	
!	CHEM 10062 General Chemistry I Laboratory	1				KBS	
!	TECH 20002 Materials and Processes	3			■		
!	TECH 21021 Survey of Electricity and Electronics	4			■		
	Kent Core Requirement	3					
<b>Semester Four [15 Credits]</b>							
!	LCDE 37410 Introduction to Displays and Liquid Crystal Electro-Optical Device Technology	3	■		■		
	ECON 22060 Principles of Microeconomics	3				KSS	
	TECH 23581 Computer-Aided Engineering Graphics	3			■		
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Five [15 Credits]</b>							
!	LCDE 47410 Introduction to Display Materials	3	■		■		
!	LCDE 47450 Cleanroom Techniques and Liquid Crystal Device Fabrication	3	■		■		
!	TECH 33222 Digital Design for Computer Engineering	3	■		■		
	COMM 15000 Introduction to Human Communication	3				KAD	
	ENG 20002 Introduction to Technical Writing	3			■		
<b>Semester Six [15 Credits]</b>							
!	LCDE 47560 Flat Panel Displays: Manufacturing, Science and Technology	3	■		■		
!	TECH 33031 Programmable Logic Controllers	3	■		■		
!	TECH 33363 Metallurgy and Materials Science	3	■		■		
	Kent Core Requirement	3					
	Kent Core Requirement	3					
<b>Semester Seven [16 Credits]</b>							
!	TECH 43080 Industrial and Environmental Safety	3	■		■		
	TECH 33092 Cooperative Education - Professional Development <sup>3</sup> or TECH Electives <sup>2</sup>	2	■		■	ELR/WIC	
	TECH 43550 Computer-Aided Manufacturing	3	■		■		
	TECH 46330 Visual Basic Programming in Engineering Technology	3	■		■		
	Kent Core Requirement	3					
	General Electives	2					
<b>Semester Eight [15 Credits]</b>							
!	TECH 43700 Computer Integrated Manufacturing	3	■		■		
	TECH 31000 Cultural Dynamics of Technology <sup>3</sup>	3	■		■	DD/WIC	
	TECH 33700 Quality Techniques	3	■		■		
	TECH Electives <sup>2</sup>	3			■		
	General Electives	3					

### Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
120	39	36	2.250	2.000

1. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
2. Four credits hours (each course comprising 1 or 2 credits) elective are required, with a minimum 2 credits upper division. These electives may be taken in any semester provided the total semester hours do not exceed 16. These electives may be satisfied by TECH 33092 Cooperative Education-Professional Development. While students are strongly encouraged to take at least one semester of cooperative education, this may not be possible; hence it is not required. Studies are strongly urged to talk to their professional advisor about the electives and ensuring the experiential learning requirement (ELR) is fulfilled.
3. A minimum C (2.000) grade must be earned in TECH 31000 or TECH 33092 to fulfill the writing-intensive requirement.

### University Requirements Summary

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	<b>Kent Core I. Composition</b> Enrollment based on placement test	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	6
KMC	<b>Kent Core II. Mathematics and Critical Reasoning</b> Enrollment based on placement test	MATH 12002	fulfilled
KHU	<b>Kent Core III. Humanities</b> Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFA	<b>Kent Core IV. Fine Arts</b> Minimum one course from the fine arts; may fulfill diversity requirement	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KFH	<b>Kent Core V. Humanities or Fine Arts</b> One additional course from either the humanities or fine arts category may fulfill diversity requirement.	visit <a href="http://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a>	3
KSS	<b>Kent Core VI. Social Sciences</b> Must be selected from two curricular areas; may fulfill diversity requirement	ECON 22060	3
KBS	<b>Kent Core VII. Basic Sciences</b> Must include one laboratory	CHEM 10060, CHEM 10062, PHY 23101	fulfilled
KAD	<b>Kent Core VIII. Additional</b> May fulfill diversity requirement	COMM 15000, PHY 23102	fulfilled
DD	<b>Domestic Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	TECH 31000	fulfilled
DG	<b>Global Diversity Course Requirement</b> Either domestic or global diversity must be from Kent Core	visit <a href="http://www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a>	one course
ELR	<b>Experiential Learning Requirement</b> Either course or non-course experience approved by the appropriate faculty member	If TECH 33092 is taken, this requirement will be fulfilled	one course
WIC	<b>Writing-Intensive Course Requirement</b> Minimum C (2.000) grade	TECH 33092, TECH 31000	fulfilled