

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation.

Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
Semester One: [16 Credit Hours]					
MATH 11010 Algebra for Calculus	3				Enrollment based on placement tests; fulfills Kent Core Mathematics and Critical Reasoning
TECH 10001 Information Technology	3			■	
TECH 13580 Engineering Graphics I	3			■	
TECH 20002 Materials and Processes	3			■	
US 10097 Destination Kent State: FYE	1				Not required for transfer students with 25 credits
Kent Core Requirement	3				See Kent Core Summary on page 2
Semester Two: [15 Credit Hours]					
MATH 11022 Trigonometry	3				Fulfills Kent Core Additional
TECH 23581 Computer-Aided Engineering Graphics	3			■	
ECON 22060 Principles of Microeconomics	3				Fulfills Kent Core Social Sciences
PSYC 11762 General Psychology	3				Fulfills Kent Core Social Sciences
Kent Core Requirement	3				See Kent Core Summary on page 2
Semester Three: [18 Credit Hours]					
ENG 20002 Introduction to Technical Writing	3				
Physics course option	5				See note 1 on page 2; fulfills Kent Core Basic Science
MIS 24163 Principles of Management	3			■	Prerequisite: sophomore standing
TECH 11071 Woods Technology I	3			■	
TECH 21021 Survey of Electricity and Electronics	4			■	
Semester Four: [14 Credit Hours]					
Physics course option	5				See note 1 on page 2; fulfills Kent Core Basic Science
TECH 20001 Energy/Power	3			■	
TECH 31015 Construction Technology	3	■		■	
COMM 15000 Introduction to Human Communication	3				Fulfills Kent Core Additional
Semester Five: [15 Credit Hours]					
TECH 31016 Manufacturing Technology	3	■		■	
TECH 32002 Materials and Processes II	3	■		■	
Kent Core Requirement	3				See Kent Core Summary on page 2
Kent Core Requirement	3				
Kent Core Requirement	3				
Semester Six: [15 Credit Hours]					
MIS 24056 Fundamentals of Business Statistics or MIS 34180 Human Resource Management or MIS 44150 Total Quality Management	3			■	
TECH 31000 Cultural Dynamics of Technology	3	■	C	■	Fulfills writing-intensive course requirement
TECH Elective (upper division)	3	■		■	
General Electives (lower or upper division)	6				Should fulfill diversity requirement if not satisfied earlier
Semester Seven: [14 Credit Hours]					
TECH 31087 Design for Technology	3	■		■	
TECH 43800 Applied Engineering Technology Seminar	2	■		■	Capstone course; prerequisite: senior standing
PSYC 31773 Industrial Psychology	3	■			
TECH Electives (upper division)	6	■		■	
Semester Eight: [16 Credit Hours]					
TECH Electives (upper division)	6	■		■	
General Electives (4 credits must be upper division)	10	■			Number of credits required depends on meeting minimum 123 credit hours and 39 upper-division hours



Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Global / Domestic Diversity Course	Writing-Intensive	Experiential Learning	Minimum Major GPA	Minimum Overall GPA
123	39	36	Kent Core or General Electives	TECH 31000	Visit www.kent.edu/catalog/elr	2.250	2.000

Kent Core Summary

Kent Core Categories	Important Notes	Remaining Credit Hours
Composition (6-8 credit hours) <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i>	Enrollment based on placement test	6-8
Mathematics and Critical Reasoning (3-5 credit hours)	Fulfilled in this major with MATH 11010.	0
Humanities and Fine Arts (9 credit hours) <i>Minimum one course from humanities in Arts and Sciences and minimum one course from fine arts</i>	May fulfill domestic diversity requirement	9
Social Sciences (6 credit hours) <i>Must be selected from two curricular areas</i>	Fulfilled in this major with ECON 22060 and PSYC 11762	0
Basic Sciences (6-7 credit hours) <i>Must include one laboratory</i>	May be fulfilled in this major with PHY 13001, PHY 13002, PHY 13021 and PHY 13022 or PHY 12201 and PHY 12002	0
Additional (6 credit hours) <i>Must be selected from two Kent Core categories</i>	Fulfilled in this major with COMM 15000 and MATH 11022	0

Note 1: Physics course option (10 credit hours), choose one of the following options:

General College Physics option (10 credit hours)

PHY 13001 General College Physics I	4
PHY 13002 General College Physics II	4
PHY 13021 General College Physics Laboratory I	1
PHY 13022 General College Physics Laboratory II	1

Technical Physics option (10 credit hours)

PHY 12201 Technical Physics I*	3
PHY 12202 Technical Physics II*	4
Kent Core Basic Science	3

*only offered on the regional campuses

Kent Core

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student's major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit www.kent.edu/catalog/kent-core for course list.

Diversity Course Requirement

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean's approval, by completing one semester of study in another country. Visit www.kent.edu/catalog/diversity for course list.

Writing-Intensive Course Requirement

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.000) grade. Visit www.kent.edu/catalog/wic for course list.

Experiential Learning Requirement (ELR)

To provide students with direct engagement in learning experiences that promote academic relevance, meaning and an understanding of real-world issues, students must complete this requirement at Kent State, either as a for-credit course or as a non-credit, non-course experience approved by the appropriate faculty member. Visit www.kent.edu/catalog/elr for course list.

Upper-Division Requirement

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.

