



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	Min. Grade	Important Notes
Semester One: [13 Credit Hours]			
EERT 22000 Electricity/Electronics with Applications	3		
MERT 12000 Engineering Drawing	3		
EERT 22003 Technical Computing	3		
Kent Core Composition	3		Enrollment based on placement test
US 10097 Destination Kent State: FYE	1		Not required of transfer students with 25 credits
Semester Two: [14 Credit Hours]			
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		Fulfills Kent Core Additional
Semester Three: [18 Credit Hours]			
IERT 12005 Applications in Computer-Aided Drafting	2		
IERT 22010 Computer Integrated Manufacturing	3		
MERT 22012 Fluid Power	3		
ENG 20002 Introduction to Technical Writing	3		
PHY 13001 General College Physics I	4		Fulfills Kent Core Basic Sciences
Automated Machining or Industrial Automation Option	3		See note below
Semester Four: [17 Credit Hours]			
MERT 12004 Manufacturing Processes	3		
MFGT 21001 Standard Design	3		
IERT 22000 Statistical Process Control	4		
PHY 13002 General College Physics II	4		Fulfills Kent Core Basic Sciences
Automated Machining or Industrial Automation Option	3		See note below

Graduation Requirements Summary

Minimum Total Hours	Minimum	
	Major GPA	Overall GPA
62	2.0	2.0

Kent Core Summary (for students planning to pursue a baccalaureate program)

Kent Core Categories	Important Notes
Composition (6-8 credit hours) <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i>	Enrollment based on placement test
Mathematics and Critical Reasoning (3-5 credit hours)	Enrollment based on placement test
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>	
Social Sciences (6 credit hours) <i>Must be selected from two curricular areas</i>	
Basic Sciences (6-7 credit hours) <i>Must include one laboratory</i>	8 credit hours fulfilled in this major with PHY 13001 and PHY 13002; must include one laboratory
Additional (6 credit hours) <i>Must be selected from two Kent Core categories</i>	3 credit hours fulfilled in this major with COMM 15000

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

Automated Machining Option

Industrial Automation Option

MFGT 13001 Computer Numerical Control Programming	3	EERT 22007 Industrial Motor Control and Application	3
MFGT 23001 Computer-Aided Manufacturing I	3	MFGT 22014 Advanced Industrial Electronics	3