



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: [17 Credit Hours]			
EERT 12000 Electric Circuits I	4		
MERT 12000 Engineering Drawing	3		
EERT 22003 Technical Computing	3		
MATH 11010 Algebra for Calculus	3		Enrollment based on placement test; fulfills Kent Core Mathematics and Critical Reasoning
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: [18 Credit Hours]			
EERT 12001 Electric Circuits II	3		
EERT 12010 Introduction to Electronics	4		
ENG 20002 Introduction to Technical Writing or ITAP 26638 Business Communications	3		
MATH 11012 Intuitive Calculus	3		Fulfills Kent Core Additional
MATH 11022 Trigonometry	2		
General Studies Elective	3		Students on the Tuscarawas Campus must take EERT 21010 Engineering and Professional Ethics
Semester Three: [18 Credit Hours]			
COMT 21008 Computer Methods in Science and Engineering	3		
EERT 22011 Electronic Systems	2		
EERT 22014 Microprocessors and Robotics	4		
EERT 22002 Industrial Controls or EERT 22005 Instrumentation or EERT 22018 PC/Network Engineering and Troubleshooting or TECH 33016 PC/Network Engineering and Troubleshooting	3		
COMM 15000 Introduction to Human Communication	3		Fulfills Kent Core Additional
PHY 12201 Technical Physics I	3		
Semester Four: [17 Credit Hours]			
EERT 22015 Robotics and Advanced Microsystems	3		
EERT 22004 Digital Systems	4		
IERT 22010 Computer Integrated Manufacturing	3		
MERT 22009 Robotics and Flexible Automation	3		
PHY 12202 Technical Physics II	4		

Graduation Requirements Summary

Minimum Total Hours	Minimum	
	Major GPA	Overall GPA
70	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; 3 credit hours fulfilled in this major with ENG 11011
Mathematics and Critical Reasoning (3-5 credit hours)	Enrollment based on placement test; fulfilled in this major with MATH 11010
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>	
Additional (6 credit hours) <i>Must be selected from two Kent Core categories</i>	Fulfilled in this major with COMM 15000 and MATH 11012