Roadmap: Engineering Technology - Product Development and Commercialization - Bachelor of Science
RE-BS-ENGT-PDAC
Regional College
Catalog year: 2014-2015

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
Semester One [17 Credits]							
	CS 10061 Introduction to Computer Programming or DSCI 15310 Computational Thinking and Programming or EERT 22003 Technical Computing	3			■		
	MATH 11010 Algebra for Calculus	3				KMC	
	US 10097 Destination Kent State: First Year Experience [1]	1					
	Applied Courses from Associate Degree, Minor or Individualized Specialization [2]	7					
	Kent Core Requirement	3					
Semester Two [17 Credits]							
	ENG 20002 Introduction to Technical Writing or ITAP 26638 Business Communications	3			■		
	MATH 11012 Intuitive Calculus	3				KMC	
	MATH 11022 Trigonometry	3				KMC	
	Applied Courses from Associate Degree, Minor or Individualized Specialization [2]	5					
	Kent Core Requirement	3					
Semester Three [13 - 15 Credits]							
	PHY 12201 Technical Physics I (3) ***or*** PHY 13001 General College Physics I (4) ***and*** PHY 13021 General College Physics Laboratory I (1)	3 - 5				KBS	
	Applied Courses from Associate Degree, Minor or Individualized Specialization [2]	10					
Semester Four [18 - 19 Credits]							
	PHY 12202 Technical Physics II (4) ***or*** PHY 13012 College Physics II (2) ***and*** PHY 13022 General College Physics Laboratory II (1)	3 - 4				KBS	
	Applied Courses from Associate Degree, Minor or Individualized Specialization [2]	12					
	Kent Core Requirement	3					
Semester Five [13 Credits]							
!	**TECH 31020 Automated Manufacturing**	**3**	■		■		
	ECON 22060 Principles of Microeconomics	3				KSS	
	EERT 21010 Engineering and Professional Ethics or TECH 31010 Engineering and Professional Ethics	3	■		■		
	ITAP 26636 Project Management for Administrative Professionals	1					
	General Elective [3]	3	■				
Semester Six [14 - 15 Credits]							
	CDAG 43002 Graphics Design Technology	3	■		■		
	TECH 36620 Project Management in Engineering and Technology	3	■		■		
	TECH 43050 Inventive Problem Solving	3	■		■		
	Kent Core Requirement	3					
	General Elective [3]	2 - 3	■				
Semester Seven [12 Credits]							
	MATH 30011 Basic Probability and Statistics	3	■		■		
	TECH 31032 Power Technology	3	■		■		
	TECH 43060 Management of Technology Innovation	3	■		■		
	Kent Core Requirement	3					
Semester Eight [14-15 Credits]							
	MERT 43092 Engineering Technology Practicum	1	■		■	ELR	
	TAS 47900 Technical and Applied Studies Capstone	3	■	C	■	ELR	
	TECH 31000 Cultural Dynamics of Technology [4] or TECH 33092 Cooperative Education - Professional Development [4]	2-3	■	C	■	DD/WIC ELR/WIC	
	Any upper division elective from CDAG, EERT, GAE, MERT and/or TECH	3	■				
	Kent Core Requirement	3					
	General Elective [3]	2	■				

Graduation Requirements Summary

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

1. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
2. Applied Courses from Associate Degree, Minor or Individualized Specialization (34 credit hours)

Choose from the following:	
ACTT 11000 Accounting I - Financial (4)	BMRT 11000 Introduction to Business (3)
BMRT 11009 Introduction to Management Technology (3)	BMRT 21011 Fundamentals of Financial Management (3)
BMRT 21050 Fundamentals of Marketing Technology (3)	BSCI 10110 Biological Diversity (4)
BSCI 10120 Biological Foundations (4)	CADT 22003 Solid Modeling (2)
CHEM 10050 Fundamentals of Chemistry (3)	CHEM 10052 Introduction to Organic Chemistry (2)
CHEM 10053 Inorganic and Organic Laboratory (1)	IERT 12005 Applications in Computer-Aided Design (2)
TECH 34002 Advanced CAD II (3)	Others by program director approval

3. Credits required depends on meeting minimum 120 credit hours and minimum 39 upper-division credit hours.
4. To fulfill the writing-intensive requirement, either TECH 31000 or TECH 33056 must be earned with minimum C (2.000) grade.

University Requirements Summary

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	**Kent Core I. Composition** Enrollment based on placement test	visit www.kent.edu/catalog/kent-core	6
KMC	**Kent Core II. Mathematics and Critical Reasoning** Enrollment based on placement test	MATH 11010	fulfilled
KHU	**Kent Core III. Humanities** Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFA	**Kent Core IV. Fine Arts** Minimum one course from the fine arts; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFH	**Kent Core V. Humanities or Fine Arts** One additional course from either the humanities or fine arts category, may fulfill diversity requirement.	visit www.kent.edu/catalog/kent-core	3
KSS	**Kent Core VI. Social Sciences** Must be selected from two curricular areas; may fulfill diversity requirement	ECON 22060	3
KBS	**Kent Core VII. Basic Sciences** Must include one laboratory	Fulfilled with Physics Sequence	fulfilled
KAD	**Kent Core VIII. Additional** May fulfill diversity requirement	MATH 11012, MATH 11022	fulfilled
DD	**Domestic Diversity Course Requirement** Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
DG	**Global Diversity Course Requirement** Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
ELR	**Experiential Learning Requirement** Either course or non-course experience approved by the appropriate faculty member	MERT 43092, TAS 47900	fulfilled
WIC	**Writing-Intensive Course Requirement** Minimum C (2.000) grade	TECH 31000	fulfilled