

AAS IN CIVIL ENGINEERING TO BS IN ENGINEERING TECHNOLOGY, 2+2 INTEGRATED ENGINEERING TECHNOLOGY CONCENTRATION

SUGGESTED SEQUENCE AT BELMONT COLLEGE		
Semester One	15 Credits	KSU Equivalent
FYE 1110 Student Learning and Success	1	TRAN 1X000
ECE 1120 CAD	4	MERT 12001 Computer-Aided Design
ECE 1170 Computing for Engineers	3	EERT 22016 Productivity Software for Industry
ENG 1110 Composition I	3	# ENG 11011 College Writing I (KCP1)
MAT 1130 College Algebra	4	# MATH 11010 Algebra for Calculus (KMCR)
Semester Two	19 Credits	KSU Equivalent
CHM 1110 Chemistry Principles I	4	CHEM 10060 General Chemistry I
ECN 1110 Macroeconomics	3	# ECON 22061 Principles of Macroeconomics (KSS)
ECE 1160 Hydraulics & Hydrology	4	MERT 22012 Fluid Power
MAT 1140 Trigonometry	3	MATH 11022 Trigonometry (KMCR)
PHY 1110 Physics I	5	# PHY 13001 General College Physics and PHY 13021 General College Physics Laboratory I (KBS, KLAB)
Semester Three	16 Credits	KSU Equivalent
COM 1110 Interpersonal Communications	3	COMM 20001 Interpersonal Communication
ECE 2121 Surveying	4	CMGT 31023, Applied Course
ECE 2216 Statics	3	MERT 22005 Statics
ECE 2251 Construction Estimating	3	ENGT 2X000, Applied Course
Arts and Humanities	3	# Kent Core Arts and Humanities
Semester Four	14 Credits	KSU Equivalent
ECE 2221 Strength of Materials	3	MERT 22007 Strength of Materials
ECE 2241 Soil Mechanics	3	ENGT 2X000, Applied Course
ECE 2261 Environmental Science	3	ENGT 2X000, Applied Course
ECE 2230 Engineering Materials/Concrete Design	3	MERT 12005 Properties of Materials
ECE 2282 Civil Engineering Capstone	2	MERT 22009 Engineering Technology Project
64 Total Credit Hours to Complete AAS from Belmont College		

SUGGESTED SEQUENCE AT KENT STATE UNIVERSITY	
Semester Five	15 Credits
MATH 11012 Intuitive Calculus @	3
ENG 20002 Introduction to Technical Writing or ITAP 26638 Business Communications	3
EERT 21010 Engineering & Professional Ethics or TECH 31010 Engineering & Professional Ethics	3
Kent Core Humanities @	3
Kent Core Social Science	3
Semester Six	15 Credits
EERT, GAE, MERT, TECH Electives (upper- division)	3
TECH 43080 Industrial and Environmental Safety	3
General Elective (upper-division)	3
ENG 21011 College Writing II @	3
Kent Core Fine Arts @	3
Semester Seven	15 Credits
EERT, GAE, MERT, TECH Electives (upper- division)	6
ECON 22060 Principles of Microeconomics @	3
General Elective (upper-division)	3
GAE 42003 Lean Manufacturing, Six Sigma & Operations Technology	3
Semester Eight	15-16 Credits
TAS 47900 Technical & Applied Studies Capstone	3
TECH 31000 Cultural Dynamics of Technology (3) or TECH 33092 Cooperative Education— Professional Development (2)	2-3
EERT, GAE, MERT, TECH Electives (upper- division)	6
General Elective (upper-division)	3
124-125 Total Credit Hours to Complete BS from KSU, Including Transfer Coursework	

Course will fulfill Kent State University's Kent Core (general education) requirement.

* Students should consult the [Kent State University Transfer Credit Guide](#) to ensure KHUM/KFA attribute.

@ Course may be taken at Belmont College and transferred to Kent State. However, please be aware of Kent State's residence policy.

GRADUATION REQUIREMENTS SUMMARY

Belmont College: Associate of Applied Science Degree, Civil Engineering

Kent State University: Bachelor of Science Degree, Engineering Technology, 2+2 Integrated Engineering Technology Concentration

Minimum Total Hours: 124

Minimum Upper-Division Hours (30000-40000 level course): 39

Minimum Kent Core Hours: 36

Minimum Major GPA: 2.0

Minimum Overall GPA: 2.0

It is recommended that students intending to pursue the Bachelor of Science Degree, Engineering Technology in 2+2 Integrated Engineering Technology Concentration through Kent State University consult with academic advisors at both Belmont College and Kent State University.

Kent Core Requirements

Bachelor's Requirements	
Requirement	Credits/Courses
• Kent Core Composition (KCMP)	6
• Kent Core Mathematics and Critical Reasoning (KMCR)	3
• Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
• Kent Core Social Sciences (KSS) (must be from two disciplines)	6
• Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
• Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

2+2 Integrated Engineering Technology Concentration Requirements

Course List		
Code	Title	Credit Hours
Concentration Requirements (courses count in major GPA)		
• GAE 42003	LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY	3
• TECH 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
Concentration Electives, choose from the following:		15
•	Computer Design, Animation and Game Design Upper-Division Electives (CDAG 30000 or 40000 level)	
•	Electrical/Electronic Engineering Technology Upper-Division Electives (EERT 30000 or 40000 level)	
•	Green and Alternative Energy Upper-Division Electives (GAE 30000 or 40000 level)	

Course List		
Code	Title	Credit Hours
<ul style="list-style-type: none"> Mechanical Engineering Technology Upper-Division Electives (MERT 30000 or 40000 level) 		
<ul style="list-style-type: none"> Technology Upper-Division Electives (TECH 30000 or 40000 level) 		
Additional Requirements (courses do not count in major GPA)		
<ul style="list-style-type: none"> MATH11012 	INTUITIVE CALCULUS (KMCR)	3
<ul style="list-style-type: none"> Kent Core Basic Sciences 		6-7
Applied Courses from Associate Degree, Minor or Individualized Specialization ¹		27
<ul style="list-style-type: none"> ACTT11000 	ACCOUNTING I: FINANCIAL	
<ul style="list-style-type: none"> BMRT11000 	INTRODUCTION TO BUSINESS	
<ul style="list-style-type: none"> BMRT11009 	INTRODUCTION TO MANAGEMENT TECHNOLOGY	
<ul style="list-style-type: none"> BMRT21011 	FUNDAMENTALS OF FINANCIAL MANAGEMENT	
<ul style="list-style-type: none"> BMRT21050 	FUNDAMENTALS OF MARKETING TECHNOLOGY	
<ul style="list-style-type: none"> COMT20011 	JAVA PROGRAMMING	
<ul style="list-style-type: none"> COMT21010 	WORKGROUP PRODUCTIVITY SOFTWARE	
<ul style="list-style-type: none"> COMT21092 	COMPUTER PRACTICUM (ELR)	
<ul style="list-style-type: none"> COMT21095 	SPECIAL TOPICS IN COMPUTER TECHNOLOGY	
<ul style="list-style-type: none"> OTEC26638 	BUSINESS COMMUNICATIONS	
<ul style="list-style-type: none"> PHY12201 	TECHNICAL PHYSICS I (KBS) (KLAB)	
<ul style="list-style-type: none"> PHY12202 	TECHNICAL PHYSICS II (KBS) (KLAB)	
<ul style="list-style-type: none"> Computer Animation Design Technology (CADT) Electives Electrical/Electronic Engineering Technology (EERT) Electives Green and Alternate Energy (GAE) Electives Mechanical Engineering Technology (MERT) Electives Physics (PHY) Electives approved by program director 		
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		17
Minimum Total Credit Hours:		74

¹ Applied courses should be chosen from an approved associate degree or a declared minor or individualized specialization selected in consultation with an advisor.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Bachelor's Requirements	
Requirement	Credits/Courses
Destination Kent State: First Year Experience	1
<ul style="list-style-type: none">Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
<ul style="list-style-type: none">Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
<ul style="list-style-type: none">Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
<ul style="list-style-type: none">Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
<ul style="list-style-type: none">Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

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