

## BS in Civil Engineering Curriculum

KENNESAW STATE UNIVERSITY			
B.S. in Civil Engineering (130 hours)			
Academic Catalog 2018-2019			
Applies to Students entering program in Fall 2018, Spring 2019, Summer 2019			
Approved by CCE Curriculum Committee and CCE Faculty on 11/08/2016			
Name _____		Phone _____	
Address _____		Student ID _____	
University Core		CE MAJOR CORE	
<b>Area A: Essential Skills</b> ( 9 hours)		<b>REQUIRED COURSES</b> ( 58 hours)	
Area A1 - ENGL 1101	3	MATH 2306 Differential Equations	3
Area A1 - ENGL 1102	3	ENVS 2202 Introduction to Environmental Science OR BIOL 1107 Biological Principles I	3
Area A2 - MATH 1190 - Calculus I	4		3
<b>Area B: Institutional Option</b> ( 5 hours)		EDG 2160 Civil Graphics and Computer Aided Drafting	3
Area B1 - ECON 1000	2	ENGR 3131 Strength of Materials	3
Area B2 - COM 1100 (Recommended)	3	ENGR 3132 Strength of Materials Laboratory	1
		ENGR 3305 Data Collection and Analysis in Engineering*	3
<b>Area C: Humanities/Fine Art:</b> ( 6 hours)		ENGR 3324 Project Cost Analysis*	3
Area C1 - English Literature	3	ENGR 3343 Fluid Mechanics*	3
Area C2 - Art and Culture	3	ENGR 3345 Fluid Mechanics Laboratory	1
		CE 1000 Orientation to Eng and Surv Professions	1
<b>Area D: Science, Math, Technology</b> ( 10 hours)		CE 2003 Engineering Problem Solving	3
Area D1 - MATH 2202 - Calculus II	4	CE 3201 Structural Analysis*	3
Area D2 - PHYS 2211 & PHYS 2211L	4	CE 3202 Design of Concrete Structure*	3
Area D2 - PHYS 2212 & PHYS 2212L	4	CE 3501 Materials for Civil & Const Engineering*	3
		CE 3502 Materials for Civil & Const Engineering Laboratory	1
<b>Area E: Social Sciences</b> ( 12 hours)		CE 3701 Geotechnical Engineering	3
Area E1 - US Government	3	CE 3708 Geotechnical Engineering Laboratory	1
Area E2 - US History	3	CE 3702 Intro to Environmental Engineering*	3
Area E3 - World History	3	CE 3704 Intro to Environmental Engineering Laboratory	1
Area E4 - STS 1101 (Recommended)	3	CE 4177 Transportation Engineering*	3
		CE 4179 Transportation Engineering Lab	1
<b>Area F: Core Related to Major</b> ( 18 hours)		CE 4703 Engineering Hydrology*	3
Math Excess from Area A2	1	CE 4800 Senior Project	3
Physics Excess from Area D1	1	SURV 4470 Land Development Design	3
Math Excess from Area D2	1		
ENGR 2214 - Statics	3	<b>CE ELECTIVE COURSES (12 hr min.)* ( 12 hours)</b>	
SURV 2221 - Surveying I	4	<b>CEDG-1: Environmental Engineering</b>	
CHEM 1211 & CHEM 1211L	4	CE 3703 Environmental Engineering Design*	3
CHEM 1212 & CHEM 1212L	4	CE 4343 Solid Waste Engineering*	3
		CE 4353 Air Pollution Control*	3
		CE 4708 Hazardous Waste Engineering*	3
		<b>CEDG-2: Geotechnical/Materials Engineering</b>	
		CE 4105 Foundation Design*	3
		CE 4705 Advanced Soil Mechanics*	3
		<b>CEDG-3: Transportation Engineering</b>	
		CE 4178 Highway Design and Construction	3
		CE 4706 Pavement Engineering*	3
		<b>CEDG-4: Other Engineering</b>	
		CE 3398 Internship in Civil Engineering	3
		CE 4103 Design of Steel Structure*	3
		CE 4704 Hydraulic Analysis and Design*	3
		CE 4707 Design of Wood Structures*	3
		CM 3040 Building Info. Modeling Applications	3
		Any GIS/SURV 3xxx/4xxx	3
<b>TOTAL UNIVERSITY CORE:</b>	<b>60 hours</b>	<b>TOTAL CE MAJOR CORE :</b>	<b>70 hours</b>

\*Select two courses from Civil Engineering Discipline Groups (CEDG) 1 to 3, but not more than one from each CEDG 1 to 3. The remaining two courses may be selected from ANY CEDG 1 to 4.

**\* Requires Engineering Standing**

*CE students are required to earn a grade of "C" or better in all courses required in the major and all courses used as electives.*

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<b>Area A1</b>		
ENGL	1101	Composition I
ENGL	1102	Composition II
<b>Area A2</b>		
MATH	1101	Introduction to Mathematical Modeling
MATH	1111	College Algebra
MATH	1112	College Trigonometry
MATH	1113	Pre-Calculus
MATH	1190	Calculus I (Recommended)
<i>Note A2: STEM major take MATH 1112, MATH 1113 or MATH 1190</i>		
<b>Area B1</b>		
ECON	1000	Contemporary Economic Issues
<b>Area B2</b>		
AADS	1102	Issues in African and African Diaspora Studies
AMST	1102	American Identities
ASIA	1102	Introduction to Asian Cultures
COM	1100	Human Communication (Recommended)
FL	1002	Introduction to Foreign Language II course
GWST	1102	Love and Sex
LALS	1102	Understanding Latin America
PAX	1102	Understanding Peace and Conflict
PHIL	2200	Ways of Knowing
RELS	1102	Understanding Religious Studies
<b>Area C1</b>		
ENGL	2110	World Literature
ENGL	2111	Early World Literature
ENGL	2112	World Literature mid 1600s to Present
ENGL	2120	British Literature
ENGL	2121	Early British Literature
ENGL	2122	British Literature late 1700s to Present
ENGL	2130	American Literature
ENGL	2131	Early American Literature
ENGL	2132	American Literature mid 1800s to Present
ENGL	2300	African-American Literature
<b>Area C2</b>		
ART	1107	Art in Society
DANC	1107	Dance in Society
MUSI	1107	Music in Society
TPS	1107	Theatre in Society
<b>Area E1</b>		
POLS	1101	American Government
<b>Area E2</b>		
HIST	2111	U.S. History to 1877
HIST	2112	U.S. History since 1877
<b>Area E3</b>		
HIST	1100	Introduction to World History
HIST	1111	Pre-Modern World History
HIST	1112	Modern World History
<b>Area E4</b>		
CRJU	1101	Foundations of Criminal Justice
GEOG	1101	Introduction to Human Geography
PSYC	1101	Introduction to General Psychology
SOCI	1101	Introduction to Sociology
STS	1101	Science, Technology, and Society (Recommended)
ANTH	1102	Introduction to Anthropology
ECON	2100	Principles of Microeconomics