



SCHOOL OF ENGINEERING & APPLIED SCIENCES



BACHELOR of Science in Civil Engineering
 School of Engineering and Applied Sciences
 Ogden College of Science and Engineering
 Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

SAMPLE - 4 year plan

FIRST YEAR	Fall Semester		Spring Semester	
	<ul style="list-style-type: none"> • Show up, on time, ready to participate • Find a good study group • Seek help at first signs of trouble 	MATH 136 Calculus I (F-QR)	4	MATH 137 Calculus II
ENG 100 Intro to College Writing (F-W1)		3	COMM 145 Fund of Public Speaking & Communications (F-OC)	3
GEOL 111 (w/ 113 Lab) The Earth (E-NS, SL)		4	CE 160 (w/ 161 Lab) Principles of Surveying	4
CE 176 Civil Engineering Freshman Design		1	PHYS 255 (w/ 256 Lab) University Physics I	5
AMS 163 Architectural Drafting		3		
TOTAL CREDIT HOURS		15	TOTAL CREDIT HOURS	16

SECOND YEAR	Fall Semester		Spring Semester	
	<ul style="list-style-type: none"> • Consider a co-op or internship • Join the ASCE • Connect with your advisor • Satisfy language Requirement 	Arts & Humanities Elect	3	ENG 200 Intro to Literature (E-AH)
CE 303 Construction Management		3	EM 303 Mechanics of Deformable Solids	3
MATH 237 Multivariable Calculus		4	CE 310 Strengths of Materials Lab	1
EM 222 Statics		3	MATH 331 Differential Equations	3
CE 316 Equipment & Methods		3	Science or Math Elective	3
			CE 332 Transportation Engineering	3
TOTAL CREDIT HOURS		16	TOTAL CREDIT HOURS	16

World Language Proficiency: All students entering in Fall 2014 or later must demonstrate proficiency in a world language at the Novice High level before completing 60 credit hours. Novice high is the ability to communicate in writing and speaking on familiar topics in simple sentences. To meet this requirement, students may take college language courses or take a proficiency test. For more information go to www.wku.edu/modernlanguages/placement/.

Colonnade Plan: All students entering in fall 2014 or later must complete 39 hours in 13 specific Colonnade areas. Colonnade areas are listed in parentheses marked in blue after the corresponding classes. Some areas may have specific course requirements while others can be chosen from selected lists of options. For more details and to see lists of options, go to http://www.wku.edu/colonnade/documents/approved_colonnade_courses_website.pdf

BACHELOR of SCIENCE in CIVIL ENGINEERING - Sample 4 year plan (2018-2019)



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THIRD YEAR	Fall Semester		Spring Semester	
<ul style="list-style-type: none"> Find a project you can care about Network with professionals 	CE 382 or 373 Structural Analysis	3	CE 384 Reinforced Concrete Design	3
	CE 370 (w/ 371 Lab) Materials of Construction	3	CHEM 120 (w/ 121 Lab) College Chemistry (E-NS)	5
	CE 342 Fluid Thermal Science	4	CE 305 Risk Analysis	3
	CE 410 (w/ 411 Lab) Soil Mechanics	4	CE Tech Elective	3
	Writing in Discipline Elective	3	CE 412 Foundation Engineering	3
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	17

FOURTH YEAR	Fall Semester		Spring Semester	
<ul style="list-style-type: none"> Get help with your resume and application letters Prepare for the FE Exam 	HIST 101 World History I OR HIST 102 World History II (F-SB)	3	CE 461 Hydrology	3
	Social and Behavioral Sciences Elective (E-SB)	3	CE Tech Elective	3
	CE Tech Elective	3	CE 498 Senior Project	3
	CE 352 Intro to Environmental Engineering	3	Connections: Local to Global Elective (K-LG)	3
	CE 400 Civil Engineering Senior Design Seminar	2	Connections: Social and Cultural Elective (K-SC)	3
	Connections: Systems Elective (K-SY)	3		
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	15

Total Credit Hours: 129

Information regarding CE Tech Electives, Pre-Major Requirements, and Math/Science electives can be found in the undergraduate catalog.

PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change. Consult your advisor each semester.

For more Information: Department: School of Engineering and Applied Sciences
 Website: www.wku.edu/seas
 Phone: 270-745-2461
 Email: seas@wku.edu

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TECHNICAL ELECTIVES REQUIREMENT

Each student is required to complete nine (9) credit hours of technical electives from the list of courses below. A minimum of six (6) credit hours must come from courses taught by engineering faculty. Other courses not mentioned below are possible with permission and written approval. Contact your advisor.

<u>Course</u>	<u>Course Title</u>	<u>Hrs</u>
CE 300	Floodplain Management	3
CE 301	Field Experience in Floodplain Management	3
CE 326	Engineering Lab	3
CE 360/361	Estimating Scheduling and Bidding and Lab	3/1
CE 378/379	Route Surveying and Lab	3/1
CE 380/381	Boundary Surveying and Lab	3/1
CE 383	Structural Steel Design	3
CE 426	Advanced Construction Materials	3
CE 436	Design and Construction Integration	3
CE 440	Masonry Design and Construction	3
CE 444	Bridge Engineering	3
CE 462	Hydraulic Engineering Systems	3
CE 474	Civil Engineering Project	1-3
CE 475	Selected Topics in Civil Engineering	3
CE 476	Highway Construction	3
CE 486	Steel and Concrete Construction	3
AMS 305	Building Codes	3
AMS 325	Survey of Building Systems	3
CM 363	Construction Estimating and Bidding	3
CM 400	Construction Administration	3
CM 426	Construction Law	3
EE 350	Fundamentals of Electrical Engineering	3
ENGR 400	Systems Engineering	3
EM 313	Dynamics	3
GEOL 308	Structural Geology	4
GEOL 310	Global Hydrology	3
GEOL 415	Environmental Geology	3
GISC 316	Fundamentals of GIS	4
GISC 317	Geographic Information Systems	4
MATH 350	Advanced Engineering Mathematics	3
ME 220	Engineering Thermodynamics	3

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SCIENCE OR MATH ELECTIVE REQUIREMENT

Each student is required to complete one science or math elective with a grade of “C” or better from the list of courses below. There are many options to complete this requirement. Other courses are possible with permission and approval. Contact your advisor.

<u>Course</u>	<u>Course Title</u>	<u>Hrs</u>
CHEM 222/223	College Chemistry II and Lab	3/2
PHYS 265/266	University Physics II and Lab	4/1
MATH 307	Linear Algebra	3
MATH 370	Applied Techniques in Math	3
STAT 301	Probability and Statistics	3
GEOG 280	Environmental Science and Sustainability	4
GEOL 311	General Oceanography	3
GEOL 420	Geomorphology	4
GEOL 445	Aqueous Geochemistry	3
GEOL 465	Geophysics	3