

# Civil Engineering B.S.C.E.

## Civil Engineering B.S.C.E. Eight-Semester Degree Program

The Civil Engineering B.S.C.E. program is eligible for freshman students who want to participate in an Eight-Semester Degree Program. See the Eight-Semester Degree Policy (<http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy>) for details of the program.

The following section contains the list of courses required for the Bachelor of Science in Civil Engineering degree and a suggested sequence. Not all courses are offered every semester, so students who deviate from the suggested sequence must pay careful attention to course scheduling and course prerequisites.

See the list of university core courses (<http://catalog.uark.edu/undergraduatecatalog/academicregulations/universitycore>) available for engineering students.

First Year	Units	
	Fall	Spring
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405)	4	
PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034)	4	
GNEG 1111 Introduction to Engineering I	1	
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)	3	
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3	
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505)		4
GNEG 1121 Introduction to Engineering II		1
Freshman Science Elective		4
Freshman Science Elective Lab		0
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)		3
Select one of the following:		3
PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003)		
HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113)		
HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)		
Year Total:	15	15

Second Year	Units	
	Fall	Spring
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603)	4	
CVEG 2015 Fundamentals of Mechanics for Civil Engineers	5	

CVEG 2053 Surveying Systems & CVEG 2051L Surveying Systems Laboratory	4	
Fine Arts Elective (from University/State Core list)	3	
MATH 2584 Elementary Differential Equations		4
CVEG 2002 Introduction to Civil Engineering Plans and CADD		2
CVEG 2113 Structural Materials		3
INEG 2313 Applied Probability and Statistics for Engineers I		3
GEOS 1113 General Geology (ACTS Equivalency = GEOL 1114 Lecture) & GEOS 1111L General Geology Laboratory (ACTS Equivalency = GEOL 1114 Lab)		4
CVEG 2851 Engineering Professional Practice Issues		1
Year Total:	16	17

Third Year	Units	
	Fall	Spring
CVEG 3303 Structural Analysis	3	
CVEG 3213 Hydraulics	3	
CVEG 3413 Transportation Systems Engineering	3	
INEG 2413 Engineering Economic Analysis	3	
STEM Elective	3	
CVEG 4303 Reinforced Concrete Design I		3
CVEG 3243 Environmental Engineering		3
CVEG 3223 Hydrology		3
CVEG 3133 Soil Mechanics		3
CVEG 3131L Soil Mechanics Laboratory		1
Social Science Elective (from University/State Core list)		3
Year Total:	15	16

Fourth Year	Units	
	Fall	Spring
CVEG 4143 Foundation Engineering	3	
CVEG 4423 Transportation Infrastructure	3	
Civil Engineering Elective *	3	
Civil Engineering Design Elective	2	
Humanities Elective (from University/State Core List)	3	
Social Science Elective (from University/State Core list)	3	
CVEG 4890 Fundamentals of Engineering Seminar	0	
CVEG 4513 Construction Management		3
CVEG 4243 Environmental Engineering Design		3
Civil Engineering Design Elective		2
Civil Engineering Electives *		6
Social Science Elective (from University/State Core List)		3
Year Total:	17	17

Total Units in Sequence: 128

\* See the elective list among the program requirements.