

Chemical Engineering B.S.Ch.E.

Chemical Engineering B.S.Ch.E. Eight-Semester Degree Program

The following section contains the list of courses required for the Bachelor of Science in Chemical Engineering degree. 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. Students wishing to follow the eight-semester degree plan should see the Eight-Semester Degree Policy (<http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy>) in the Academic Regulations chapter for university requirements of the program. Entering freshmen will be required to participate in selected Freshman Engineering Student Services.

First Year	Units	
	Fall	Spring
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405)	4	
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)	3	
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3	
PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034)	4	
GNEG 1111 Introduction to Engineering I	1	
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505)		4
CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)		3
CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)		1
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)		3
PHYS 2074 University Physics II (ACTS Equivalency = PHYS 2044 Lecture)		4
GNEG 1121 Introduction to Engineering II		1
Year Total:	15	16

Second Year	Units	
	Fall	Spring
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603)	4	
CHEM 3603 Organic Chemistry I	3	
CHEM 3601L Organic Chemistry I Laboratory	1	
CHEG 2113 Introduction to Chemical Engineering I	3	
HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) or HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003)	3	

Humanities or Social Science Elective	3	
MATH 2584 Elementary Differential Equations		4
CHEM 3613 Organic Chemistry II		3
CHEM 3611L Organic Chemistry II Laboratory		1
CHEG 2133 Fluid Mechanics or CHEG 2133H Honors Fluid Mechanics		3
CHEG 2313 Thermodynamics of Single-Component Systems or CHEG 2313H Honors Thermodynamics of Single-Component Systems		3
Humanities or Social Science Elective		3
Year Total:	17	17

Third Year	Units	
	Fall	Spring
CHEM 3813 Elements of Biochemistry or CHEM 4813H Honors Biochemistry I	3	
CHEG 3144 Heat and Mass Transfer	4	
CHEG 3323 Thermodynamics of Multi-Component Systems or CHEG 3323H Honors Thermodynamics of Multi-Component Systems	3	
Technical Elective		3
ECON 2143 Basic Economics: Theory and Practice or ECON 2013 Principles of Macroeconomics (ACTS Equivalency = ECON 2103)		3
Humanities or Social Science Elective		3
CHEG 3713 Chemical Engineering Materials Technology		3
CHEG 3333 Chemical Engineering Reactor Design or CHEG 3333H Honors Chemical Engineering Reactor Design		3
CHEG 3253 Chemical Engineering Computer Methods		3
CHEG 3233L Chemical Engineering Laboratory I		3
Humanities/Social Science Core Elective		3
Year Total:	19	15

Fourth Year	Units	
	Fall	Spring
CHEG 4163 Separation Processes or CHEG 4163H Honors Separation Processes	3	
CHEG 4413 Chemical Engineering Design I or CHEG 4413H Honors Chemical Engineering Design I	3	
CHEG 4813 Chemical Process Safety or CHEG 4813H Honors Chemical Process Safety	3	
Advanced Science Elective		3
Technical Elective		3
CHEG 4332L Chemical Engineering Laboratory II		2
CHEG 4423 Automatic Process Control or CHEG 4423H Honors Automatic Process Control		3

CHEG 4443 Chemical Engineering Design II or CHEG 4443H Honors Chemical Engineering Design II		3
Advanced Science or Chemical Engineering Elective		3
Chemical Engineering Elective		3
Year Total:	15	14
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Total Units in Sequence:		128