Mechanical Engineering B.S.M.E.

Mechanical Engineering B.S.M.E. Eight-Semester Degree Program

The following section contains the list of courses required for the Bachelor of Science in Mechanical 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. Students interested in obtaining a sequencing schedule of courses may contact the Mechanical Engineering office.

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.

Either the science elective in the second semester of Year 1 or the science elective in the first semester of Year 2 must include PHYS 2074. Other science electives should be chosen from an approved list. See the mechanical engineering office.

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

Second Year	Fall	Spring
MEEG 2100 Computer-aided Design Competency	0	
Science Elective (See Note Above)	4	
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603)	4	
MEEG 2303 Introduction to Materials	3	
MEEG 2003 Statics	3	
MATH 2584 Elementary Differential Equations		4
MEEG 2013 Dynamics		3
MEEG 2403 Thermodynamics		3
MEEG 2703 Computer Methods in Mechanical Engineering		3
MEEG 2103 Introduction to Machine Analysis		3
Year Total:	14	16

Third Year	Fall	Spring
MEEG 3013 Mechanics of Materials	3	
MEEG 3113 Machine Dynamics and Control	3	
MEEG 3202L Mechanical Engineering Laboratory I	2	
MEEG 3503 Mechanics of Fluids	3	
ELEG 3903 Electric Circuits and Machines	3	
ECON 2013 Principles of Macroeconomics (ACTS Equivalency = ECON 2103) or ECON 2143 Basic Economics: Theory and Practice	3	
MEEG 3212L Mechanical Engineering Laboratory II		2
MEEG 4413 Heat Transfer		3
MEEG 4104 Machine Element Design		4
ELEG 3933 Circuits & Electronics		3
Technical/Science Elective		3
PHIL 3103 Ethics and the Professions		3
Year Total:	17	18

Fourth Year	Fall	Spring
MEEG 4132 Professional Engineering Practices	2	
MEEG 4182 Creative Project Design I	2	
MEEG 4202L Mechanical Engineering Laboratory III	2	
MEEG 4483 Thermal Systems Analysis and Design	3	
Technical/Science Elective	3	
Fine Arts Elective (from University/State Core List)	3	
MEEG 4192 Creative Project Design II		2
Two Technical/Science Elective		6
Two Social Science Elective (from University/State Core List)		6
Year Total:	15	14

Total Units in Sequence:	124