

# Mechanical Engineering B.S.M.E. with Aerospace Concentration

## B.S.M.E. with Aerospace Concentration Eight-Semester Plan

First Year	Units	
	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
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)		3
Freshman Science Elective, select one of the following:		4
ASTR 2003 Survey of the Universe (ACTS Equivalency = PHSC 1204 Lecture) & ASTR 2001L Survey of the Universe Laboratory (ACTS Equivalency = PHSC 1204 Lab)		
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)		
BIOL 2213 Human Physiology (ACTS Equivalency = BIOL 2414 Lecture) & BIOL 2211L Human Physiology Laboratory (ACTS Equivalency = BIOL 2414 Lab)		
CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) & CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)		
GEOS 1113 General Geology (ACTS Equivalency = GEOL 1114 Lecture) & GEOS 1111L General Geology Laboratory (ACTS Equivalency = GEOL 1114 Lab)		

PHYS 2094 University Physics III		
PHYS 3544 Optics		
Year Total:	15	15

Second Year	Units	
	Fall	Spring
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603)	4	
PHYS 2074 University Physics II (ACTS Equivalency = PHYS 2044 Lecture)	4	
MEEG 2003 Statics	3	
MEEG 2100 Computer-aided Design Competency	0	
MEEG 2303 Introduction to Materials	3	
MATH 2584 Elementary Differential Equations		4
MEEG 2013 Dynamics		3
MEEG 2103 Introduction to Machine Analysis		3
MEEG 2403 Thermodynamics		3
MEEG 2703 Computer Methods in Mechanical Engineering		3
Year Total:	14	16

Third Year	Units	
	Fall	Spring
ELEG 3903 Electric Circuits and Machines	3	
ECON 2013 Principles of Macroeconomics (ACTS Equivalency = ECON 2103)	3	
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 3933 Circuits & Electronics		3
PHIL 3103 Ethics and the Professions		3
MEEG 3212L Mechanical Engineering Laboratory II		2
MEEG 4104 Machine Element Design		4
MEEG 4413 Heat Transfer		3
Aerospace Technical Science Elective		3
Year Total:	17	18

Fourth Year	Units	
	Fall	Spring
MEEG 4182 Creative Project Design I	2	
MEEG 4132 Professional Engineering Practices	2	
MEEG 4202L Mechanical Engineering Laboratory III	2	
MEEG 4483 Thermal Systems Analysis and Design	3	
Fine Arts Elective (from University Core list)	3	
Aerospace Technical Science Elective	3	
MEEG 4192 Creative Project Design II		2
Social Science Elective (from University Core List)		3
Social Science Elective (from University Core List)		3
Aerospace Technical Science Elective		3

Aerospace Technical Science Elective		3
Year Total:	15	14
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Total Units in Sequence:		124