

NAME: \_\_\_\_\_ T#: \_\_\_\_\_

ARKANSAS TECH  
UNIVERSITY**Bachelor of Science in Mechanical Engineering - 8-Semester Guaranteed Program**

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at <http://www.atu.edu/academics/catalog/>.

**Employment Information:** Mechanical engineering is one of the broadest engineering disciplines. Mechanical engineers design, develop, build, and test mechanical and thermal systems. These systems include mechanical devices such as tools, engines, and machines, and thermal devices including steam power plants, heating, ventilation and air-conditioning systems (HVAC), and pumping systems.

#Remedial Courses (if applicable): ENGL 0303 \_\_\_\_\_ ENGL 0404 \_\_\_\_\_ READ 0103 \_\_\_\_\_ MATH 0903 \_\_\_\_\_

Prerequisites (if applicable): MATH 1914 (ACTS = MATH 1305) \_\_\_\_\_ or MATH 1203 (ACTS = MATH 1203) \_\_\_\_\_

Semester 1 Course Information	Hrs.	Grade	Notes	Semester 5 Course Information	Hrs.	Grade	Notes
ENGL 1013 - Comp I (ACTS = ENGL 1013)	3	#		ELEG 2113 - Electrical Circuits II	3		Take in sequence with ELEG 2103
Fine Arts & Humanities	3			MCEG 3313 - Thermodynamics I	3		Milestone
MATH 2914 - Calculus I (ACTS = MATH 2405)	4		Milestone	MCEG 3413 - Fundamentals of Mechanical Design	3		Milestone
CHEM 2124/2120 - General Chemistry I (ACTS = CHEM 1414)	4		Milestone	MCEG 3442 - Mechanical Laboratory I	2		
MCEG 1012 - Intro to Mechanical Engineering	2			Engineering Elective (3000-4000)	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>		<b>Total hours</b>	<b>14</b>	<b>GPA</b>	
Semester 2 Course Information	Hrs.		Notes	Semester 6 Course Information	Hrs.		Notes
ENGL 1023 - Comp II (ACTS = ENGL 1023)	3	#		Fine Arts & Humanities	3		
PHYS 2114/2000 - General Physics I (ACTS = PHYS 2034)	4		Milestone	MATH Elective (department approval required)	3		
MATH 2924 - Calculus II (ACTS = MATH 2505)	4		Milestone	MCEG 4403 - Mechanics of Fluids and Hydraulics	3		
MCEG 1002 - Engineering Graphics	2			MCEG 4423 - Machine Component Design	3		
MCEG 2023 - Engineering Materials	3			Engineering Elective (3000-4000)	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>		<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>APPLY FOR GRADUATION</b>
Semester 3 Course Information	Hrs.		Notes	Semester 7 Course Information	Hrs.		Notes
CHEM 2134/2130 - General Chemistry II (ACTS = CHEM 1424) <b>or</b> PHYS 2124/2010 - General Physics II (ACTS = PHYS 2044)	4			U.S. History/Government	3		
MATH 2934 - Calculus III (ACTS = MATH 2603)	4		Milestone	MCEG/ELEG 3003 - Modeling and Design	3		Milestone
MCEG 2013 - Statics	3		Milestone	MCEG/ELEG 4202 - Engineering Design	2		
MCEG 2203 - Computational Methods in Engineering	3			MCEG 4433 - Thermodynamics II	3		
<b>Total hours</b>	<b>14</b>	<b>GPA</b>		Technical Elective	3		Departmental approval required
Semester 4 Course Information	Hrs.		Notes	Semester 8 Course Information	Hrs.		Notes
Social Sciences	3			MCEG 4493 - Mechanical Design Project	3		Milestone
ELEG 2103 - Electrical Circuits I	3		Take in sequence with ELEG 2113	MCEG 4442 - Mechanical Laboratory II	2		
MATH 3243 - Differential Equations I	3		Milestone	MCEG 4443 - Heat Transfer	3		<b>Graduation Requirements:</b>
MCEG 2033 - Dynamics	3		Milestone	ELEG 4303 - Control Systems	3		Students must complete 120 hours and
MCEG 3013 - Mechanics of Materials	3		Milestone	Engineering Lab Elective (3000-4000)	2		achieve a 2.0 GPA or higher with at least 40
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	<b>MCEG ADVISOR ASSIGNED</b>	Engineering Elective (4000)	3		hours over 3000 level. No more than 4 hours
<b># indicates a "C" or better is required</b>							
<b>General Electives: 0</b>							

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed at <http://acts.adhe.edu/>

Fine Arts and Humanities	History & Government	Social Sciences
ART 2123 - Experiencing Art (ACTS = ARTA 1003)	HIST 1903 - Survey of American History	ECON 2013 - Princ of Economics II (ACTS = ECON 2203)
MUS 2003 - Introduction to Music (ACTS = MUSC 1003)	HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)	SOC 1003 - Introductory Sociology (ACTS = SOCI 1013)
TH 2273 - Introduction to Theatre (ACTS = DRAM 1003)	HIST 2043 - Honors U.S. History to 1877	PSY 2003 - General Psychology (ACTS = PSYC 1103)
ENGL 2173 - Introduction to Film	HIST 2013 - U.S. History II (ACTS = HIST 2123)	HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)
JOUR 2173 - Introduction to Film	POLS 2003 - American Government (ACTS = PLSC 2003)	HIST 2013 - U.S. History since 1877 (ACTS = HIST 2123)
ENGL 2003 - Intro to World Literature (ACTS = ENGL2113)	Science with Lab	HIST 2043 - Honors U.S. History to 1877
ENGL 2123 - Intro to American Literature (ACTS = ENGL 2653)	BIOL 1014 - Intro to Biological Science (ACTS = BIOL 1004)	HIST 1903 - Survey of American History
ENGL 2023 - Honors World Literature	BIOL/PHSC 1004 - Principles of Environmental Science	POLS 2003 - American Government (ACTS = PLSC 2003)
PHIL 2003 - Introduction to Philosophy (ACTS = PHIL 1103)	GEOL 1014 - Physical Geology (ACTS = GEOL 1114)	ECON 2003 - Princ of Economics I (ACTS = ECON 2103)
PHIL 2043 - Honors Introduction to Philosophy	PHSC 1013/1021 - Physical Sci/Lab (ACTS = PHSC 1004)	SPH 1003 - Intro to Speech Com (ACTS = SPCH 1003)
		ECON 2103 - Honors Principles of Economics I
		SPH 2003 - Public Speaking
		SPH 2173 - Business and Professional Speaking