

NAME: _____ T#: _____



Bachelor of Science in Engineering Physics - 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: Architectural and Engineering Manager, Validation Engineer, Photonics Engineer, Nanosystems Engineer, Physicist, Engineering Teacher

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

Prerequisites (if applicable): MATH 1914 (ACTS = MATH 1305) _____ or MATH 1203 (ACTS = MATH1203) _____

Semester 1 Course Information	Hrs.	Grade	Notes
ENGL 1013 - Composition I (ACTS = ENGL 1013)	3	#	
PHSC 1001 - Orientation to Physical Science	1		
MATH 2914 - Calculus I (ACTS = MATH 2405)	4	#	Milestone
COMS 2803 - Programming in C	3		
CHEM 2124/2120 - Gen. Chem. I (ACTS = CHEM 1414)	4		Milestone
Total hours	15	GPA	

Semester 5 Course Information	Hrs.	Grade	Notes
Social Sci/Fine Arts/Humanities/Speech	3		
ELEG 2103 - Electric Circuits I	3		
PHYS 3023 - Mechanics or PHYS 3213 - Modern Physics	3		
PHYS 4113 - Adv. Physics Lab or MATH Elective (3000-4000) See exclusions below.	3		Complete both PHYS 4113 & MATH. PHYS 4113 offered in alternating years.
PHYS 4213 - Adv Topics in Phys and Astron. or MCEG 3013 - Mech of Materials	3		
Total hours	15	GPA	

Semester 2 Course Information	Hrs.	Notes
ENGL 1023 - Composition II (ACTS = ENGL 1023)	3	#
PHSC 1011 - Orientation to Physical Science II	1	No substitutions allowed.
MATH 2924 - Calculus II (ACTS = MATH 2505)	4	Milestone
MCEG 2023 - Engineering Materials	3	
CHEM 2134/2130 - Gen. Chem. II (ACTS = CHEM 1424)	4	
Total hours	15	GPA

Semester 6 Course Information	Hrs.	Notes
Social Science	3	
ELEG 2111/2113 - Electric Circuits II and Lab	4	
PHYS 4003 - Thermo/Stats Mech or PHYS 3003 - Optics	3	
PHYS 4013 - Quantum Mech or PHYS 3133 - Theory of Elec. And Mag.	3	
Total hours	13	GPA
		APPLY FOR GRADUATION

Semester 3 Course Information	Hrs.	Notes
Fine Arts & Humanities	3	
PHYS 2114/2000 - General Physics I (ACTS = PHYS 2034)	4	Milestone
MATH 2934 - Calculus III (ACTS = MATH 2603)	4	
Biological Science	4	
Total hours	15	GPA

Semester 7 Course Information	Hrs.	Notes
U.S. History & Government	3	
PHYS 3023 - Mechanics or PHYS 3213 - Modern Physics	3	
PHYS 4113 - Adv. Physics Lab or MATH Elective (3000-4000) See exclusions below.	3	Complete both PHYS 4113 & MATH. PHYS 4113 offered in alternating years.
PHYS 4213 - Adv Topics or MCEG 3013 - Mech of Materials	3	
PHYS 4991 - Spec. Prob. Phys & Astron. or PHYS 4951 - UG Rsrch in Phys	1	
ELEG/MCEG Elective (3000-4000)	3	
Total hours	16	GPA

Semester 4 Course Information	Hrs.	Notes
Social Science	3	
Fine Arts & Humanities	3	
PHYS 2124/2010 - General Physics II (ACTS = PHYS 2044)	4	Milestone
MATH 3243 - Differential Equations I	3	
General Elective	2	
Total hours	15	GPA
PHYS ADVISOR ASSIGNED		

Semester 8 Course Information	Hrs.	Notes
ELEG 4991/MCEG 4991 - Spec. Prob. in Engin. or ELEG 4951 - Research in Elec. Engin.	1	
MCEG 4403 - Mechanics of Fluids and Hydraulics	3	
MCEG 4443 - Heat Transfer	3	
PHYS 4013 - Quantum Mech or PHYS 3133 - Theory of Elec. & Mag.	3	Students must complete 120 hours and achieve a 2.0 GPA or higher with at least 40 hours over 3000 level. No more than 4 hours can be in PE. No more than 12 hours of "D" grades.
PHYS 4003 - Thermo/Stats Mech or PHYS 3003 - Optics	3	
ELEG/MCEG Elective (3000-4000)	3	
Total Hours	16	GPA

indicates a "C" or better is required

MATH Electives exclude MATH 3003, 3033, 4113

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	U.S. History & Government
ART 2123 - Experiencing Art (ACTS = ARTA 1003)	HIST 1903 - Survey of American History
MUS 2003 - Introduction to Music (ACTS = MUSC 1003)	HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)
TH 2273 - Introduction to Theatre (ACTS = DRAM 1003)	HIST 2043 - Honors U.S. History to 1877
ENGL 2173 - Introduction to Film	HIST 2013 - U.S. History II (ACTS = HIST 2123)
JOUR 2173 - Introduction to Film	POLS 2003 - American Government (ACTS = PLSC 2003)
ENGL 2003 - Intro to World Literature (ACTS = ENGL 2113)	Science with Lab
ENGL 2013 - Intro to American Literature (ACTS = ENGL 2653)	BIOL 1014 - Intro to Biological Science (ACTS = BIOL 1004)
ENGL 2023 - Honors World Literature	BIOL/PHSC 1004 - Principles of Environmental Science
PHIL 2003 - Introduction to Philosophy (ACTS = PHIL 1103)	GEOL 1014 - Physical Geology (ACTS = GEOL 1114)
PHIL 2043 - Honors Introduction to Philosophy	PHSC 1013/1021 - Physical Sci/Lab (ACTS = PHSC 1004)

Social Sciences	
HIST 1503 - World History to 1500 (ACTS = HIST 1113)	ECON 2013 - Princ of Economics II (ACTS = ECON 2203)
HIST 1513 - World History since 1500 (ACTS = HIST 1123)	SOC 1003 - Introductory Sociology (ACTS = SOCI 1013)
HIST 1543 - Honors World History to 1500	PSY 2003 - General Psychology (ACTS = PSYC 1103)
HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)	ANTH 1213 - Intro to Anthropology (ACTS = ANTH 1013)
HIST 2013 - U.S. History since 1877 (ACTS = HIST 2123)	ANTH 2003 - Cultural Anthropology (ACTS = ANTH 2013)
HIST 2043 - Honors U.S. History to 1877	GEOG 2013 - Regional Geography (ACTS = GEOG 2103)
HIST 1903 - Survey of American History	AMST 2003 - American Studies
POLS 2003 - American Government (ACTS = PLSC 2003)	Speech Courses
ECON 1003 - Princ of Economics I (ACTS = ECON 2103)	SPH 1003 - Intro to Speech Com (ACTS = SPCH 1003)
ECON 2103 - Honors Principles of Economics I	SPH 2003 - Public Speaking
PHSC 2103 - Honors Principles of Economics I	SPH 2173 - Business and Professional Speaking