

NAME: _____

T#: _____



Bachelor of Science in Nuclear 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: Materials Engineer, Nuclear Engineer, Nuclear Fuels Research Engineer, Nuclear Medicine Technologist, Nuclear Power Reactor Operator

#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 - Composition I (ACTS = ENGL 1013)	3	#		ELEG 2103 - Electric Circuits I	3		
Social Science/Fine Arts/Humanities/Speech	3			MCEG 3313 - Thermodynamics I	3		
MATH 2914 - Calculus I (ACTS = MATH 2405)	4	#	Milestone	MCEG 3503 - Basic Nuclear Engineering	3		
PHSC 1001 - Orientation to Physical Science	1			PHYS 3213 - Modern Physics or PHYS Elective (3000-4000)	3		Note 1: PHYS 3213 & 4113 must be completed. Both courses are offered in alternating years. When not available, choose a PHYS Elective.
CHEM 2124/2120 - General Chemistry I (ACTS = CHEM 1414)	4		Milestone	PHYS 4113 - Adv. Physics Lab or PHYS Elective (3000-4000)	3		
Total hours	15	GPA		Total hours	15	GPA	
Semester 2 Course Information	Hrs.		Notes	Semester 6 Course Information	Hrs.		Notes
ENGL 1023 - Composition II (ACTS = ENGL 1023)	3	#		Fine Arts & Humanities	3		
MCEG 2023 - Engineering Materials	3		Milestone	ELEG 2111/2113 - Electric Circuits II and Lab	4		
MATH 2924 - Calculus II (ACTS = MATH 2505)	4		Milestone	MCEG 3523 or PHYS 3033 - Radiation Health Physics	3		
PHSC 1011 - Orientation to Physical Science II	1		No substitutions allowed.	MCEG 4403 - Mechanics of Fluids and Hydraulics	3		
CHEM 2134/2130 - General Chemistry II (ACTS = CHEM 1424)	4		Milestone				
Total hours	15	GPA		Total hours	13	GPA	APPLY FOR GRADUATION
Semester 3 Course Information	Hrs.		Notes	Semester 7 Course Information	Hrs.		Notes
Social Science	3			MCEG 4323 - Power Plant Systems	3		
Social Science	3			PHYS 3143 or ELEG 3103 - Electronics I	3		
COMS 2803 - Programming in C	3			PHYS 3213 - Modern Physics or PHYS Elective (3000-4000)	3		Note 1: See Note 1 in Semester 5
MATH 2934 - Calculus III (ACTS = MATH 2603)	4		Milestone	PHYS 4113 - Adv. Physics Lab or PHYS Elective (3000-4000)	3		Note 1: See Note 1 in Semester 5
PHYS 2114/2000 - General Physics I (ACTS = PHYS 2034)	4		Milestone	General Elective (3000-4000)	3		
Total hours	17	GPA		Total hours	15	GPA	
Semester 4 Course Information	Hrs.		Notes	Semester 8 Course Information	Hrs.		Notes
U.S. History & Government	3			Fine Arts & Humanities	3		Graduation Requirements:
Biological Science	4			MCEG 4443 - Heat Transfer	3		
MATH 3243 - Differential Equations I	3			PHYS 4991-4 - Spec Prob in Phys & Astron or PHYS 4951-4 - Research in Phys	1-4		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 2124/2010 - General Physics II (ACTS = PHYS 2044)	4		Milestone	Engineering Elective	3		
Total hours	14	GPA	PHYS ADVISOR ASSIGNED	PHYS Elective (3000-4000)	3-6		

indicates a "C" or better is required

General Electives: 3 hours (1000-4000)

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	Social Sciences	
ART 2123 - Experiencing Art (ACTS = ARTA 1003)	HIST 1903 - Survey of American History	HIST 1503 - World History to 1500 (ACTS = HIST 1113)	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)	HIST 1513 - World History since 1500 (ACTS = HIST 1123)	SOC 1003 - Introductory Sociology (ACTS = SOCI 1013)
TH 2273 - Introduction to Theatre (ACTS = DRAM 1003)	HIST 2043 - Honors U.S. History to 1877	HIST 1543 - Honors World History to 1500	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)	ANTH 1213 - Intro to Anthropology (ACTS = ANTH 1013)
JOUR 2173 - Introduction to Film	POLS 2003 - American Government (ACTS = PLSC 2003)	HIST 2013 - U.S. History since 1877 (ACTS = HIST 2123)	ANTH 2003 - Cultural Anthropology (ACTS = ANTH 2013)
ENGL 2003 - Intro to World Literature (ACTS = ENGL 2113)	Science with Lab	HIST 2043 - Honors U.S. History to 1877	GEOG 2013 - Regional Geography (ACTS = GEOG 2103)
ENGL 2113 - Intro to American Literature (ACTS = ENGL 2653)	BIOL 1014 - Intro to Biological Science (ACTS = BIOL 1004)	HIST 1903 - Survey of American History	AMST 2003 - American Studies
ENGL 2023 - Honors World Literature	BIOL/PHSC 1004 - Principles of Environmental Science	POLS 2003 - American Government (ACTS = PLSC 2003)	Speech Courses
PHIL 2003 - Introduction to Philosophy (ACTS = PHIL 1103)	GEOL 1014 - Physical Geology (ACTS = GEOL 1114)	ECON 2003 - Princ of Economics I (ACTS = ECON 2103)	SPH 1003 - Intro to Speech Com (ACTS = SPCH 1003)
PHIL 2043 - Honors Introduction to Philosophy	PHSC 1013/1021 - Physical Sci/Lab (ACTS = PHSC 1004)	ECON 2103 - Honors Principles of Economics I	SPH 2003 - Public Speaking
			SPH 2173 - Business and Professional Speaking