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8-Semester Guaranteed Program

Sample Schedule

ELEG2103: Electric Circuits I MCEG3313: Thermodynamics MCEG3503: Basic Nuclear Engineering

PHYS 3213: Modern Physics or PHYS Elective (3000-4000)

PHYS4113: Adv. Physics Lab or PHYS Elective (3000-4000)

Semester 5

Total hours

T#:

Grade

3

15 GPA

DATE:

Milestones/Notes

Note 1: PHYS 3213 & 4113 must be completed

Both courses are offered in alternating years. When not available, choose a PHYS Elective

Rev. 03/11/2014

Semester 5

2014-2015 Degree Map-Bachelor of Science in Nuclear Physics

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/.

Possible careers include: Materials Engineer, Nuclear Engineer, Nuclear Fuels Research Engineer, Nuclear Medicine Technologist, Nuclear Power Reactor Operator, Nuclear Technician, Quality Control Engineer, Radiation Protection Engineer

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

ARKANSAS TECH

UNIVERSITY

Prerequisites (if applicable):MATH 1914(ACTS=MATH1305) OR MATH 1203(ACTS=MATH1203)

Sample Schedule			Milestones/Notes
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013: Comp I (ACTS=ENGL 1013)	3	#	
Social Science/Fine Arts/Humanities/Speech	3		
MATH2914: Calculus I (ACTS= MATH 2405)	4		#C or > required for Gen Ed. Milestone
PHSC1001: Orientation to Physical Science	1		
CHEM 2124/2120: General Chemistry I (ACTS= CHEM 1414)	4		Milestone
Total hours	15	GPA	

Semester 2	Hrs.		Semester 2
ENGL 1023: Comp II (ACTS= ENGL 1023)	3	#	
MCEG 2023: Engineering Materials	3		Milestone
MATH2924: Calculus II (ACTS= MATH2505)	4		Milestone
PHSC1011: Orientation to Physical Science II	1		No substitutions allowed.
CHEM2134/2130:Gen. Chem. II(ACTS=CHEM1424)	4		Milestone
Total hours	15	GPA	

Semester 6	Hrs.		Semester 6
Fine Arts & Humanities	3		
ELEG 2111 and ELEG 2113: Electric Circuits II and Lab	4		
MCEG 3523 or PHYS 3033: Radiation Health Physics	3		
MCEG4403: Mechanics of Fluids and Hydraulics	3		
Total hours	13	GPA	APPLY FOR GRADUATION

See Note 1

Hrs.

Semester 3	Hrs.		Semester 3
Social Science	3		
Social Science	3		
COMS2803: Programming in C	3		
MATH2934: Calculus III (ACTS= MATH 2603)	4		Milestone
PHYS 2114/2000: General Physics I (ACTS=PHYS 2034)	4		Milestone
Total hours	17	GPA	

Semester 4	Hrs.		Semester 4
U.S. History & Government	3		
Biological Science	4		
MATH3243: Differential Equations I	3		
PHYS 2124/2010: General Physics II (ACTS=PHYS 2044)	4		Milestone
Total hours	14	GPA	PHYS ADVISOR ASSIGNED
The Arkansas Course Transfer System (ACTS) is designed to assist in plan	ning the acaden	nic 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 ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Introduction to Music (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) ENGL 2173 Introduction to Film JOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) ENGL 2023 Honors World Literature PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2043 Honors Introduction to Philosophy

U.S. History & Government HIST 1903 Survey of American History HIST 2003 U.S. History I (ACTS=HIST2113) HIST 2043 Honors U.S. History I HIST 2013 U.S. History II (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003) Speech Courses SPH 1003 Intro. to Speech Com. (ACTS=SPCH1003) SPH 2003 Public Speaking SPH 2173 Business and Professional Speaking

Semester 7	Hrs.		Semester 7
MCEG4323: Power Plant Systems	3		
PHYS 3143 or ELEG 3103: Electronics I	3		
PHYS 3213: Modern Physics or PHYS Elective (3000-4000)	3		See Note 1 in Semester 5
PHYS4113: Adv. Physics Lab or PHYS Elective (3000-4000)	3		See Note 1 in Semester 5
General Elective (3000-4000 level)	3		
Total hours	15	GPA	

Semester 8	Hrs.		Semester 8
Fine Arts & Humanities	3		Graduation Requirements:
MCEG4443: Heat Transfer	3		Min. hours 3000-4000 level courses: 40
PHYS4991:SpcI Probs. Phys&Astrmy OR PHYS4951: UG Rsrch in Phys	1-4		No more than 4 PE activity hours
Engineering Elective	3		Min. hours required:120
PHYS Elective (3000-4000 level)	3-6		2.00+ GPA
Total Hours	16	GPA	No more than 12 hours of "D" grades

Social Sciences

General Electives: 3 hours (1000-4000 level)

indicates a "C" or better is required

HIST 1503 World Civilization (ACTS=HIST1113) HIST 1513 World Civilization II (ACTS=HIST1123) HIST 1543 Honors World Civilization I HIST 2003 U.S. History I (ACTS=HIST2113) HIST 2013 U.S. HISTORY II (ACTS=HIST2123) HIST 2043 Honors U.S. History I HIST 1903 Survey of American History POLS 2003 American Government (ACTS=PLSC2003) ECON 2003 Principles of Economics I (ACTS=ECON2103) ECON 2103 Honors Principles of Economics I

ECON 2013 Principles of Economics II (ACTS=ECON2203) SOC 1003 Introductory Sociology (ACTS=SOCI1013) PSY 2003 General Psychology (ACTS=PSYC1103) ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013) ANTH 2003 Cultural Anthropology (ACTS=ANTH2013) GEOG 2013 Regional Geography of the World (ACTS=GEOG2103) AMST 2003 American Studies