

ARKANSAS STATE UNIVERSITY  
COLLEGE OF SCIENCES AND MATHEMATICS

DEGREE AND MAJOR: **B.S.E. GEN SCI: Physics Emphasis**  
MINOR (if applicable) \_\_\_\_\_  
CATALOG YEAR: **2011 - 2012**

NAME \_\_\_\_\_  
ID# \_\_\_\_\_

		Sub. Or Transfer			Sub. Or Transfer		
		Course	Grade			Course	Grade
<b>GENERAL EDUCATION REQUIREMENTS: 46-49 HRS</b>							
<b>Composition – 6 hrs.</b>							
ENG 1003	Freshman English I	_____	_____				
ENG 1013	Freshman English II	_____	_____				
<b>Mathematics – 3 hrs. (One of the following):</b>							
MATH 2204	Calculus I	_____	_____				
<b>Critical Thinking – 3 hrs.</b>							
<b>(One of the following)</b>							
PHIL 1103	Intro to Philosophy	_____	_____				
PHIL 1503	Logic and Practical Reasoning	_____	_____				
SCOM 1203	Speech Communication	_____	_____				
<b>Understanding Global Issues – 3 hrs.</b>							
<b>(One of the following)</b>							
HIST 1013	World Civilization to 1660	_____	_____				
HIST 1023	World Civilization Since 1660	_____	_____				
<b>Arts &amp; Humanities – 9 hrs.</b>							
<b>(Must complete 3 courses from this section. At least one must be a fine arts course. At least one must be a humanities course.)</b>							
<b>Fine Arts:</b>							
MUS 2503	Fine Arts – Musical	_____	_____				
THEA 2503	Fine Arts – Theater	_____	_____				
ART 2503	Fine Arts – Visual	_____	_____				
<b>Humanities:</b>							
ENG 2003	Intro to Lit. of West. World I	_____	_____				
ENG 2013	Intro to Lit. of West. World II	_____	_____				
PHIL 1103	PHIL 1103, Intro to Philosophy	_____	_____				
<b>Social Sciences – 9 hrs.</b>							
HIST 2763	The U.S. to 1876	_____	_____				
HIST 2773	The U.S. since 1876	_____	_____				
POSC 1003	Intro to Politics	_____	_____				
PSY 2103	Intro to Psychology	_____	_____				
<b>Science – 8 hrs.</b>							
<b>Life Sciences. Select one of the following:</b>							
BIOL 1003	Biological Science & BIOL 1001 Lab	_____	_____				
BIOL 1033	Biology of Se & BIOL 1001 Lab	_____	_____				
BIOL 1043	Plants & People & BIOL 1001 Lab	_____	_____				
BIOL 1063	People & Environ. & BIOL 1001 Lab	_____	_____				
BIO 2013	Biology of the Cell	_____	_____				
BIO 2103	Microbiology for Nursing	_____	_____				
BIO 2101	Microbiology for Nursing Lab	_____	_____				
<b>If BIO 2103 is selected, the student must also take EITHER:</b>							
BIO 2203	Human A&P I and BIO 2201 Human A& P Lab	_____	_____				
BIO 2223	Human A&P II and BIO 2221 Human A&P II Lab	_____	_____				
<b>Physical Sciences - Select one of the following:</b>							
PHYS 2034	University Physics I	_____	_____				
<b>Health and Wellness – 2 hrs.</b>							
PE 1002	Concepts of Fitness	_____	_____				
<b>Enhancements– 3-6 hrs. (See Bulletin online for other rules.)</b>							
_____		_____	_____				
_____		_____	_____				

**MAJOR REQUIREMENTS – Physics Emphasis: 44 hrs**

CS 2182	Programming I	_____	_____
CS 2181	Programming I Lab	_____	_____
MATH 2214	Calculus II	_____	_____
MATH 3254	Calculus III	_____	_____
MATH 4403	Differ Equations	_____	_____
PHYS 2044	University Physics II	_____	_____
PHYS 3153	Mechanics	_____	_____
PHYS 3203	Electromagnetic Theory	_____	_____
PHYS 3303	Modern Physics	_____	_____
PHYS 1103	Introduction to Space Science	_____	_____
PHYS 3133	Astronomy	_____	_____
CHEM 1013	General Chemistry I	_____	_____
CHEM 1011	General Chemistry I Lab	_____	_____
CHEM 1023	General Chemistry II	_____	_____
CHEM 1021	General Chemistry II Lab	_____	_____
GEOL 1003	Environmental Geology	_____	_____
GEOG 3723	Introduction to Physical Geography: W&C	_____	_____

**PROFESSIONAL ED. REQ. - 33 HRS**

PSY 3703	Educational Psychology	_____	_____
SCED 2514	Intro to Secondary Teaching	_____	_____
SCED 3515	Performance Based Instru. Design	_____	_____
EDSC 4593	M/M Teaching Science	_____	_____
**TICH 4826	Teach. Internship Secondary School	_____	_____
SCED 4713	Ed. Measurement w/Computer App.	_____	_____
SE 3643	Exceptional Student Regular Classroom	_____	_____

**\*\*This is a 12 credit hour course.**

**ADDITIONAL CERTIFICATION REQ: 6 HRS**

HLTH 2513	Principles of Personal Health	_____	_____
SCOM 1203	Oral Communications	_____	_____

**SIX POINT UNDERGRADUATE SYSTEM:**

- \_\_\_\_\_ 1. Admission into Teacher Ed. Program (min 36 hrs)
- \_\_\_\_\_ 2. Pre-Student Teaching Check (one semester prior to student teaching)
- \_\_\_\_\_ 3. Intent to Student Teach (one semester prior to student teaching)
- \_\_\_\_\_ 4. Student teacher Validation (semester of student teaching)
- \_\_\_\_\_ 5. Evaluation of Student Teacher Performance (summative, end of student teaching)
- \_\_\_\_\_ 6. Intent to Graduate & Graduate Checklist

**1000/2000 LEVEL COURSES TAKEN AT  
TWO YEAR INSTITUTIONS CANNOT BE  
USED TO SATISFY JUNIOR/SENIOR  
HOUR REQUIREMENTS**

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**GRADUATION CHECK LIST**

**Current Enrollment**

3 hours HIST 2763 or 2773 \_\_\_\_\_  
 3 hours HIST 1013 or 1023 \_\_\_\_\_  
 POSC 2103 \_\_\_\_\_  
 32 resident hours \_\_\_\_\_  
 2.50 average in major \_\_\_\_\_  
 2.50 average in overall \_\_\_\_\_  
 Maximum 31 hours corr/ext/exam  
 CLEP/MS/USAF1/(maximum 30 hrs  
 by exam/CLEP) \_\_\_\_\_  
 45 Jr/Sr hours for degree \_\_\_\_\_  
 129-132 hours for degree \_\_\_\_\_  
 18 of last 24 hours on ASU campus \_\_\_\_\_  
 Minimum 57 hours from 4-year institutions \_\_\_\_\_  
 English Proficiency \_\_\_\_\_  
 Math Proficiency \_\_\_\_\_  
 Speech Proficiency \_\_\_\_\_  
 HLTH 2513 \_\_\_\_\_  
 SCOM 1203 \_\_\_\_\_  
 Middle School Endorsement \_\_\_\_\_  
 NCATE Stamp \_\_\_\_\_  
 NTE \_\_\_\_\_

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_  
 7. \_\_\_\_\_

The above named student has met all requirements for graduation providing he/she satisfactorily completes the courses of current enrollment. If correspondence or transfer credit, official transcript must be filed with registrar at least three weeks prior to graduation.

\_\_\_\_\_  
 Advisor Date

\_\_\_\_\_  
 Department Chair Date

\_\_\_\_\_  
 Dean of Sciences and Mathematics Date

**PPST/CBT Scores: (Pre-req for admission into BSE program)**  
 READING \_\_\_\_\_ WRITING \_\_\_\_\_ MATH \_\_\_\_\_  
 172 173 171

## B.S.E. Physics

Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. In most cases, general education courses may be interchanged between semesters. Mandatory state and institutional assessment exams will be required during your degree program. Failure to participate in required assessments may delay graduation.

Year 1 Fall Semester			Year 1 Spring Semester			Year 2 Fall Semester			Year 2 Spring Semester		
Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed
MATH 2204	4	X	ENG 1013	3	X	ART or MUS or THEA 2503	3	X	HIST 1013 or 1023 ENG 2003 or 2013 or PHIL 1503	3	X
ENG 1003	3	X	CS 2182	2		MATH 3254	4		MATH 4403	4	
PHYS 1003	3		CS 2181	1		CHEM 1013	3		CHEM 1023	3	
PE 1002	2	X	PHYS 2044	4		CHEM 1011	1		CHEM 1021	1	
PHYS 2034	4	X	MATH 2214	4		PHYS 3153	3		GEOL 1003 or PHYS 1103 or PHYS 3043	3	
			PHIL 1503 or 1103 or SCOM 1203	3	X	SCED 2514	3				
<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>17</b>		<b>Total Hours</b>	<b>17</b>		<b>Total Hours</b>	<b>17</b>	
Year 3 Fall Semester			Year 3 Spring Semester			Year 4 Fall Semester			Year 4 Spring Semester		
Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed
HIST 2763 OR 2773 or POSC 2103	3	X	HIST 2763 or 2773 or ECON 2313 or 2333 or POSC 2103 or 1003 or PSY 2013 or SOC 2213	3	X	ART or MUS or THEA 2503 or LIT 2003 04 2013 or PHIL 1503	3	X	TIPH 4826	12	
PHYS 3303	3		PHYS 3203	3		EDSC 4593	3				
POSC 2103	3	X	HLTH 2513	3		SCED 4713	3				
SCED 3515	5		SE 3643	3		PSY 3703	3				
GEOL 1003 or PHYS 1103 or PHYS 3043	3		BIOL 1003 or 1013 or 1033 or 1043 or 1063 BIOL 1001 or BIOL 1021	3	X	GEOL 1003 or PHYS 1103 or PHYS 3043	3				
				1		Enhancement	3	X			
<b>Total Hours</b>	<b>17</b>		<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>18</b>		<b>Total Hours</b>	<b>12</b>	
						<b>Total Jr/Sr Hours</b>			<b>Total Degree Hours</b>	<b>129</b>	

Student: \_\_\_\_\_

