

ARKANSAS STATE UNIVERSITY  
COLLEGE OF SCIENCES AND MATHEMATICS

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

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

		Sub. Or Transfer	Grade		Sub. Or Transfer	Grade
<b>GENERAL EDUCATION REQUIREMENTS: 46-49 HRS</b>				<b>MAJOR REQUIREMENTS – PHYSICS: 54 HRS.</b>		
<b>Composition – 6 hrs.</b>				CS 2183	Structured Programming I	_____
ENG 1003	Freshman English I	_____	_____	CS 2181	Structured Programming I Lab	_____
ENG 1013	Freshman English II	_____	_____	CHEM 1013	General Chemistry I	_____
<b>Mathematics – 3 hrs. (One of the following):</b>				CHEM 1011	General Chemistry I Lab	_____
MATH 2204	Calculus I	_____	_____	CHEM 1023	General Chemistry II	_____
<b>Critical Thinking – 3 hrs.</b>				CHEM 1021	General Chemistry II Lab	_____
<b>(One of the following)</b>				MATH 2214	Calculus II	_____
PHIL 1103	Intro to Philosophy	_____	_____	MATH 3254	Calculus III	_____
PHIL 1503	Logic and Practical Reasoning	_____	_____	MATH 4403	Differ Equations	_____
SCOM 1203	Speech Communication	_____	_____	PHYS 2044	University Physics II	_____
<b>Understanding Global Issues – 3 hrs.</b>				PHYS 3103	Thermal Physics	_____
<b>(One of the following)</b>				PHYS 3153	Mechanics	_____
ANTH 2233	Intro to Cultural Anthropology	_____	_____	PHYS 3203	Electromagnetic Theory	_____
GEO 2233	Intro to Geography	_____	_____	PHYS 3303	Modern Physics	_____
HIST 1013	World Civilization to 1660	_____	_____	PHYS 3253	Optics	_____
HIST 1023	World Civilization Since 1660	_____	_____	PHYS 4353	Mathematical Physics	_____
<b>Arts &amp; Humanities – 9 hrs.</b>				PHYS 4553	Principles of Quantum Mechanics	_____
<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>				PHYS 4693	Research in Physics - Capstone	_____
<b>Fine Arts:</b>				<b>PHYS Lab Experiences - 4 hrs from:</b>		
MUS 2503	Fine Arts – Musical	_____	_____	PHYS 3272	Physics Instrumentation I	_____
THEA 2503	Fine Arts – Theater	_____	_____	PHYS 3282	Physics Instrumentation II	_____
ART 2503	Fine Arts – Visual	_____	_____	PHYS 4432	Advv. Physics Lab I	_____
<b>Humanities:</b>				PHYS 4442	Adv. Physics Lab II	_____
ENG 2003	Intro to Lit. of West. World I	_____	_____	<b>Foreign Language – 0-6 hrs.</b>		
ENG 2013	Intro to Lit. of West. World II	_____	_____	<b>(See Foreign Lang. requirement in Bulletin)</b>		
<b>Social Sciences – 9 hrs.</b>				_____	_____	_____
ENG 2003	Intro to Lit of West World II	_____	_____	_____	_____	_____
PHIL 1103	Intro to Philosophy	_____	_____	<b>Electives: 19-25 hrs.</b>		
<b>(From the following courses at least one course must be selected from HIST 2763, HIST 2773, or POSC 2103)</b>				_____	_____	_____
ECON 2313	PrincipleS of Macroeconomics	_____	_____	_____	_____	_____
ECON 2333	Economic Issues and Concepts	_____	_____	_____	_____	_____
HIST 2763	The U.S. to 1876	_____	_____	_____	_____	_____
HIST 2773	The U.S. since 1876	_____	_____	_____	_____	_____
PHIL 1103	Intro to Philosophy	_____	_____	_____	_____	_____
POSC 1003	Intro to Politics	_____	_____	_____	_____	_____
POSC 2103	Intro to U.S. (Ameri.) Gov.	_____	_____	_____	_____	_____
PSY 2013	Intro to Psychology	_____	_____	_____	_____	_____
SOC 2213	Intro to Sociology	_____	_____	_____	_____	_____
<b>Science – 8 hrs.</b>				<b>1000/2000 LEVEL COURSES TAKEN AT TWO YEAR INSTITUTIONS CANNOT BE USED TO SATISFY JUNIOR/SENIOR HOUR REQUIREMENTS</b>		
<b>Life Sciences:</b>						
BIOL 1003	Bio. Science & BIOL 1001 Lab	_____	_____			
BIOL 1033	Bio. Of Sex, & BIOL 1001 Bio. Science Lab	_____	_____			
BIOL 1043	Plants & People, & BIOL 1001 Bio. Science Lab	_____	_____			
BIOL 1063	People & Environ., & BIOL 1001 Bio. Science Lab	_____	_____			
BIO 2013	Biology of the Cell	_____	_____			
BIO 2011	Biology of the Cell Lab	_____	_____			
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>May substitute high level biology course &amp; lab for which 1001 &amp; 1003 are prerequisites.)</b>						
<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>						
_____	_____	_____	_____			
_____	_____	_____	_____			

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**GRADUATION CHECK LIST**

**Current Enrollment**

- 3 hours HIST 2763 or 2773  
or POSC 2103 \_\_\_\_\_
- 32 resident hours \_\_\_\_\_
- 2.00 average in major \_\_\_\_\_
- 2.00 average in overall \_\_\_\_\_
- 2.00 average at ASU \_\_\_\_\_
- Maximum 31 hours corr/ext/exam  
CLEP/MS/USAF1/(maximum 30 hrs  
by exam/CLEP) \_\_\_\_\_
- 45 Jr/Sr hours after 30 hours \_\_\_\_\_
- 124 hours for degree \_\_\_\_\_
- 18 of last 24 hours on ASU campus \_\_\_\_\_
- Minimum 57 hours from 4-year institutions \_\_\_\_\_
- English Proficiency  
(C or better in ENG 1003 & 1013) \_\_\_\_\_

- 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

## B.S. 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			Year 1			Year 2			Year 2		
Fall Semester			Spring Semester			Fall Semester			Spring Semester		
Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed	Course No.	Hrs	Gen Ed
PHSC 1003	3		CS 2183	3		PHIL 1103 or 1503 or SCOM 1203 HIST 1013 or 1023	3	X	PHYS 3103 or PHYS 4353 ART, MUS or THEA 2503	3	
ENG 1003	3	X	CS 2181	1		PHYS 3153	3	X	CHEM 1013	3	X
MATH 2204	4	X	ENG 1013	3	X	PHYS 3303	3		CHEM 1011	1	
PE 1002	2	X	PHYS 2044	4		MATH 3254	4		PHYS 3203	3	
PHYS 2034	4	X	MATH 2214	4					MATH 4403	3	
<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>15</b>		<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>16</b>	
Year 3			Year 3			Year 4			Year 4		
Fall Semester			Spring Semester			Fall Semester			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	PHYS 3103 or PHYS 4353 PHYS 3253 or PHYS 4553	3		Elective	3		Gen Ed Enhance-ment	3	X
BIOL 1013	3	X	Elective	3		Elective	3		PHYS 4693	3	
BIOL 1021	1	X	Elective	3		PHYS 4432	2		Elective	1	
CHEM 1023	3		Social Sci.	3	X	Arts & Humanities	3	X	PHYS 3253 or PHYS 4553	3	
CHEM 1021	1		Arts & Humanities	3	X	Electives	3		Electives	6	
PHYS 3272	2										
Social Sci.	3	X									
<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>15</b>		<b>Total Hours</b>	<b>14</b>		<b>Total Hours</b>	<b>16</b>	
						<b>Total Jr/Sr Hours</b>			<b>Total Degree Hours</b>	<b>124</b>	

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