

**ARKANSAS STATE UNIVERSITY  
COLLEGE OF SCIENCES AND MATHEMATICS**

**NAME:** \_\_\_\_\_  
**ID#:** \_\_\_\_\_

**DEGREE AND MAJOR:** B.S. Physics

**MINOR (if applicable):** \_\_\_\_\_

**CATALOG YEAR:** 2004 – 2006

**SUBSTITUTION  
OR TRANSFER  
COURSE NO. GRADE**

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OR TRANSFER  
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**GENERAL EDUCATION REQUIREMENTS: 46-49 hrs.**

**Composition – 6 hrs.:**

ENG 1003, Freshman English I \_\_\_\_\_  
ENG 1013, Freshman English II \_\_\_\_\_

**Mathematics – 3 hrs.:**

MATH 2204, Calculus I \_\_\_\_\_

**Critical Thinking – 3 hrs.:**

*(One of the following)*

PHIL 1103, Intro. to Philosophy \_\_\_\_\_  
PHIL 1503, Logic and Practical Reasoning \_\_\_\_\_  
SCOM 1203, Speech Communication \_\_\_\_\_

**Understanding Global Issues – 3 hrs.:**

*(One of the following)*

ANTH 2233, Intro. to Cultural Anthropology \_\_\_\_\_  
GEO 2233, Intro. to Geography \_\_\_\_\_  
HIST 1013, World Civ. to 1660 \_\_\_\_\_  
HIST 1023, World Civ. since 1660 \_\_\_\_\_

**Arts and Humanities – 9 hrs.:**

*(Must complete 3 courses from this section) At least one must be a fine arts course. At least one must be a humanities course.)*

**Fine Arts:**

MUS 2503, Fine Arts – Musical \_\_\_\_\_  
THEA 2503, Fine Arts – Theater \_\_\_\_\_  
ART 2503, Fine Arts – Visual \_\_\_\_\_

**Humanities:**

ENG 2003, Intro. to Lit of West. World I \_\_\_\_\_  
ENG 2013, Intro. to Lit of West. World II \_\_\_\_\_

**Social Sciences – 9 hrs.:**

ENG 2003, Intro. to Lit of West. World II \_\_\_\_\_  
PHIL 1103, Intro. to Philosophy \_\_\_\_\_

*(From the following courses at least one course must be selected from HIST 2763, HIST 2773, or POSC 2103).*

ECON 2313, Princip. of Macroeconomics \_\_\_\_\_  
ECON 2333, Econ. Issues and Concepts \_\_\_\_\_  
HIST 2763, The U. S. to 1876 \_\_\_\_\_  
HIST 2773, The U. S. since 1876 \_\_\_\_\_  
PHIL 1103, Intro. to Philosophy \_\_\_\_\_  
POSC1003, Intro. to Politics \_\_\_\_\_  
POSC 2103, Intro. to U. S. (Amer.) Gov \_\_\_\_\_  
PSY 2103, Intro. to Psychology \_\_\_\_\_  
SOC 2213, Intro. to Sociology \_\_\_\_\_

**Science – 8 hrs.:**

**Life Sciences:**

BIOL 1003, Bio. Science & BIOL 1001, Lab \_\_\_\_\_  
BIOL 1013, Bio. Of the Cell & BIOL 1021, Lab \_\_\_\_\_  
BIOL 1033, Bio. Of Sex & BIOL 1001, Lab \_\_\_\_\_  
BIOL 1043, Plants & People, & BIOL 1001, Lab \_\_\_\_\_  
BIOL 1063, People & Environ. & BIOL 1001, Lab \_\_\_\_\_  
BIOL 2103, Microbiology, and BIOL 2101, Lab N & AH \_\_\_\_\_

If BIOL 2103 is selected, the student must also take EITHER: ZOO 2003, Human Anatomy & Physiology I and ZOO 2001, Lab for Human A & PI; OR ZOO 2013, Human Anatomy and Physiology II \_\_\_\_\_  
ZOO 2001, Lab for Human Anatomy and Physio. II \_\_\_\_\_  
*(May substitute higher level biology course & lab for which 1001 & 1003 are prerequisites.)*

**Physical Sciences. Select one of the following:**

PHYS 2034, University Physics I \_\_\_\_\_

**Health and Wellness – 2 hrs.:**

PE 1002, Concepts of Fitness \_\_\_\_\_

**Enhancements 3-6 hrs.: (See Bulletin online for other rules)**

\_\_\_\_\_  
\_\_\_\_\_

**MAJOR REQUIREMENTS – PHYSICS: 54 hrs.**

CS 2183, Structured Programming I \_\_\_\_\_  
CS 2181, Structured Programming I Lab \_\_\_\_\_  
CHEM 1013, General Chemistry I \_\_\_\_\_  
CHEM 1011, General Chemistry I Lab \_\_\_\_\_  
CHEM 1023, General Chemistry II \_\_\_\_\_  
CHEM 1021, General Chemistry II Lab \_\_\_\_\_  
MATH 2214, Calculus II \_\_\_\_\_  
MATH 3254, Calculus III \_\_\_\_\_  
MATH 4403, Differ Equations \_\_\_\_\_  
PHYS 2044, University Physics II \_\_\_\_\_  
PHYS 3103, Thermal Physics \_\_\_\_\_  
PHYS 3153, Mechanics \_\_\_\_\_  
PHYS 3203, Electromagnetic Theory \_\_\_\_\_  
PHYS 3303, Modern Physics \_\_\_\_\_  
PHYS 3253, Optics \_\_\_\_\_  
PHYS 4353, Mathematical Physics \_\_\_\_\_  
PHYS 4553, Principles of Quantum Mechanics \_\_\_\_\_  
PHYS 4693, Research in Physics-Capstone \_\_\_\_\_  
PHYS Lab Experiences – **4 hrs. from:**  
PHYS 3272, Physics Instrumentation I \_\_\_\_\_  
PHYS 3282, Physics Instrumentation II \_\_\_\_\_  
PHYS 4432, Adv. Physics Lab I \_\_\_\_\_  
PHYS 4442, Adv. Physics Lab II \_\_\_\_\_

**FOREIGN LANGUAGE: 0 – 6 hrs. (See Foreign Language Requirements in the Bulletin.):**

\_\_\_\_\_  
\_\_\_\_\_

**Electives: 19 – 25 hrs.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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### GRADUATION CHECK LIST

- 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/USAFI/ (maximum 30  
hours 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) \_\_\_\_\_

Current Enrollment

- 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 19x3	3		CS 2183	3		PHIL 1103 or 1503 or SCOM 1203	3	X	PHYS 3103 or PHYS 4353	3	
ENG 1003	3	X	CS 2181	1		HIST 1013 or 1023	3	X	ART, MUS or THEA 2503	3	X
MATH 2204	4	X	ENG 1013	3	X	PHYS 3153	3		CHEM 1013	3	
PE 1002	2	X	PHYS 2044	4		PHYS 3303	3		CHEM 1011	1	
PHYS 2034	4	X	MATH 2214	4		MATH 3254	4		PHYS 3203	3	
									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	3		Elective	3		Gen Ed Enhance-ment	3	X
BIOL 1013	3	X	PHYS 3253 or PHYS 4553	3		Elective	3		PHYS 4693	3	
BIOL 1021	1	X	Elective	3		PHYS 4432	2		Elective	1	
									PHYS 3253 or PHYS 4553	3	
CHEM 1023	3		Social Sci.	3	X	Arts & Humanities	3	X	Electives	6	
CHEM 1021	1		Arts & Humanities	3	X	Electives	3				
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:** \_\_\_\_\_