

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

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

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

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

**CATALOG YEAR:** 2004 – 2006

**SUBSTITUTION  
OR TRANSFER  
COURSE NO. GRADE**

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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. (one of the following):**

MATH 1054, Precalculus Mathematics OR \_\_\_\_\_  
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 Anthropol. \_\_\_\_\_  
GEOG 2613, Intro to Geography \_\_\_\_\_  
HIST 1013, World Civ. to 1660 \_\_\_\_\_  
HIST 1023, World Civ. Since 1660 \_\_\_\_\_

**Arts & 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 \_\_\_\_\_  
PHIL 1103, Intro to Philosophy \_\_\_\_\_

**Social Sciences – 9 hrs.:**

***(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 \_\_\_\_\_  
POSC 1003, Intro. to Politics \_\_\_\_\_  
POSC 2103, Intro. to U. S. (Amer.) Gov. \_\_\_\_\_  
PSY 2103, Intro. to Psychology \_\_\_\_\_  
SOC 2213, Intro to Sociology \_\_\_\_\_

**Sciences – 8 hrs.:**

**Life Sciences**

BIOL 1013, Bio. of the Cell \_\_\_\_\_  
BIOL 1021, Lab for Biology of the Cell \_\_\_\_\_

**Physical Sciences:**

CHEM 1013, Gen Chemistry I \_\_\_\_\_  
CHEM 1011, Lab for Gen. Chemistry I \_\_\_\_\_

**Health and Wellness – 2 hrs.:**

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

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

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

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

**MAJOR REQUIREMENTS-CHEMISTRY 61-65 hrs.**

***(The specific requirements listed at left will not be counted in the major)***

CHEM 1023, General Chemistry II \_\_\_\_\_  
CHEM 1021, General Chemistry II Lab \_\_\_\_\_  
CHEM 2004, Descriptive Inorganic Chemistry \_\_\_\_\_  
CHEM 3054, Quantitative Analysis \_\_\_\_\_  
CHEM 3103, Organic Chemistry I \_\_\_\_\_  
CHEM 3101, Organic Chemistry I Lab \_\_\_\_\_  
CHEM 3113, Organic Chemistry II \_\_\_\_\_  
CHEM 3111, Organic Chemistry II Lab \_\_\_\_\_  
CHEM 3124, Physical Chemistry I \_\_\_\_\_  
CHEM 3134 Physical Chemistry II \_\_\_\_\_  
CHEM 4204, Inorganic Chemistry \_\_\_\_\_  
CHEM 4224, Instrumentation \_\_\_\_\_  
CHEM 4232, Chemical Literature OR \_\_\_\_\_  
CHEM 2002, Computer in Chemistry \_\_\_\_\_  
CHEM 4271, 2, 3 Research in Chemistry \_\_\_\_\_  
CHEM 4243, Biochemistry \_\_\_\_\_  
CHEM 4281, Chemistry Seminar \_\_\_\_\_  
\* MATH 2204, Calculus I \_\_\_\_\_  
MATH 2214, Calculus II \_\_\_\_\_  
MATH 3254, Calculus III \_\_\_\_\_  
PHYS 2034, University Physics I AND \_\_\_\_\_  
PHYS 2044, University Physics II \_\_\_\_\_

**OR**

PHYS 2054, General Physics I AND \_\_\_\_\_  
PHYS 2064, General Physics II \_\_\_\_\_

***\*(If not taken as General Education Requirement)***

**EMPHASIS AREA: (Select on of these options)**

**Chemistry 8-18 hrs.**

Geology or Biological Science elective – 3 hrs.  
\_\_\_\_\_  
Electives 5-15 hrs. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Environmental – 12-18 hrs.**

GEOL 1003, Environmental Geology \_\_\_\_\_  
GEOL 1001, Environmental Geology Lab \_\_\_\_\_  
CHEM 4043, Environmental Chemistry \_\_\_\_\_  
CHEM 4053, Geochemistry \_\_\_\_\_  
GEOL 4333, Hydrogeology \_\_\_\_\_  
Electives – 0-5 hrs. \_\_\_\_\_

**Pre-professional Studies 12-15 hrs.**

ZOOL 1043, Biology of Animals \_\_\_\_\_  
ZOOL 1041, Lab for Biology of Animals \_\_\_\_\_  
Biology or Zoology Electives – 8 hrs. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Electives – 0-6 hrs. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FOREIGN LANGUAGE – 0-6 hrs. (See Bulletin online for specific 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 \_\_\_\_\_

125-138 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.E. Chemistry

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
CHEM 1013	3	X	ENG 1013	3	X	SCED 2514	3		ART or MUS or THEA 2503	3	X
CHEM 1011	1	X	CHEM 1023	3		PHYS 2034 or PHYS 2054	4		PHYS 2044 or PHYS 2064	4	
PHYS 1913	3		CHEM 1021	1		CHEM 2004	4		CHEM 3054	4	
ENG 1013	3	X	SCOM 1203	3	X	CHEM 3103	4		CHEM 3113	3	
MATH 1054	4	X	MATH 2204	4		CHEM 3101	1		CHEM 3111	1	
PE 1002	2		ANTH 2233 or HIST 1013 or 1023 or GEOG 2613	3	X				GEOL 1003 or PHYS 1103 or GEOG 3723	3	
<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>17</b>		<b>Total Hours</b>	<b>16</b>		<b>Total Hours</b>	<b>18</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	3	X	POSC 2103	3	X	ART or MUS or THEA 2503 or LIT 2003 04 2013 or PHIL 1503	3	X	TICH 4826	12	
HLTH 2513	3		CHEM 3154	4		Enhance-ment	3	X			
PSY 2103	3	X	BIOL 1003 or 1013 or 1033 or 1043 or 1063	3	X	EDSC 4593	3				
SCED 3515	5		BIOL 1001 or BIOL 1021	1	x	SCED 4713	3				
GEOL 1003 or PHYS 1103 or GEOG 3723	3		LIT 2003 or 2013 or PHIL 1503	3	X	GEOL 1003 or PHYS 1103 or GEOG 3723	3				
			SE 3643	3		PSY 3703	3				
<b>Total Hours</b>	<b>17</b>		<b>Total Hours</b>	<b>17</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>131</b>	

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