



**COLLEGE OF ARTS & SCIENCES**  
**OKLAHOMA STATE UNIVERSITY**

**General Requirements for Students Matriculating in Academic Year 2012-2013**

**BACHELOR of SCIENCE**

**MAJOR: Biochemistry**

**Minimum Overall Grade Point Average: 2.00      Total Hours: 120**

**(cumulative graduation/retention GPA)**

*Other GPA requirements, see below.*

<b>GENERAL EDUCATION REQUIREMENTS: 42 HOURS</b>		
<b>Area</b>	<b>Hours</b>	<b>To be selected from:</b>
English Composition & Oral Communication	6	ENGL 1113 or 1313; & 1213 or 1413 or 3323 (See Academic Regulation 3.5 in Catalog)
American History & Government	6	HIST 1103; POLS 1113
Analytical & Quantitative Thought (A)	7	MATH 2144 & 2153
Humanities (H)	6	Courses designated (H)
Natural Sciences (N)	8	CHEM 1314; PHYS 1114 or 2014
Social & Behavioral Sciences (S)	6	Courses designated (S)
Diversity (D)	--	Course designated (D) (see note 1.b.)
International Dimension (I)	--	Course designated (I) (see note 1.b.)
Scientific Investigation (L)	--	Course designated (L) (see note 1.b.)
Controlled Electives	3	SPCH 2713
<b>COLLEGE/DEPARTMENTAL REQUIREMENTS: 26 HOURS</b>		
Orientation	1	A&S 1111 (transfer students with 15 hours exempt)
Arts and Humanities	3	_____ (see note 2.a.)
Natural & Mathematical Sciences	22	BIOL 1114, CHEM 1515, MICR 2123, 2132, PHYS 1214 or 2114, ZOOL 1604 (or BOT 1404)

<b>MAJOR REQUIREMENTS: 42 HOURS</b>
Minimum GPA <u>2.00</u> . Minimum GPA in BIOC courses <u>2.00</u> .
BIOC 3713, 3723, 3813, 4224 (or CHEM 3433), 4883, 4990 (2 hours)
BIOL 3023 (or ANSI 3423 or PLNT 3554)
CHEM 2113, 3053, 3112, 3153
At least one course from: BOT 3463, ENTO 3044, ZOOL 3204, ZOOL 4215
<u>Hours from the following or related courses to total 42 hours:</u>
ANSI 3543
BIOC *1990 (1-2 hours), 2101, 2200 (1-6-hours), 4113, 4523, *4990 (1-8 hours), 5753, 5853
BIOL 3034
BOT 3462
CHEM 2122, 3353, 3532, 3553, 4020 (1-5 hours), 4320 (1-3 hours)
ENTO 4854
MATH 2163, 2233, 3013
MICR 3143, 3154, 3223, 3253, 4012, 4112, 4123, 4133, 4134, 4203, 4214, 4233, 4253, 4263, 4323, 4353, 4423
NSCI 4323
PHYS 4313
STAT 4013
ZOOL 2104, 3114, 4133, 4134, 4223, 4273, 4283, 4293, 4303, 4503
With approval from the adviser and department head, maximum of 30 hours of science courses from an accredited doctoral health program may be substituted for major requirements other than BIOC 3713, 3723, 3813.
*total from BIOC 1990 & 4990 may not exceed 10 hours.

<b>ELECTIVES: 10 HOURS</b>
9 hours may need to be upper-division.

Other Requirements: See notes 1, 2 & 3 on back of degree sheet  
Foreign Language Proficiency: See note 3 on back of sheet.  
Upper-Division Gen Ed: 6 hours outside major department.  
Upper-Division Credit: Total hours must include at least 40 hours in courses numbered 3000 or above.  
Hours in One Department: Hours in one department in excess of 54 will be added to the minimum total of 120 required for graduation.

Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.

Signature on file in the Office of the Registrar \_\_\_\_\_  
 DEAN

Signature on file in the Office of the Registrar \_\_\_\_\_  
 DEPARTMENT HEAD

# College of Arts and Sciences

## 1. General Education Requirements

- a. No more than two courses (or eight hours) from the major department may be used to meet General Education and College and Departmental Requirements.

The General Education Controlled Elective, required English Composition, required U.S. History, required American Government, and one required MATH course do not count against the two-course maximum.

- b. The Diversity, International Dimension, Scientific Investigation and Non-Western requirements may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
- c. Courses in the major department may not be used to satisfy the College requirement for six hours upper-division General Education.

## 2. A&S College/Departmental Requirements

- a. Arts and Humanities are defined as any course carrying an (H) designation or courses from ART, MUSI, PHIL (except 1313 and 3003), REL, TH, creative writing, foreign languages (second year and above), linguistics and literature. No more than six hours may be music or theatre performance or art studio.
- b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, BOT, CHEM, CS (except 4883), GEOL, MATH, MICR, PHYS, STAT and ZOOL; or courses from other departments that carry an (A) or (N) general education designation.
- c. Non-Western Studies Requirement for B.A. and B.F.A. (see 1.b. above). One 3-hour course in Non-Western Studies from: A&S 2000 (Intro to African Studies); ANTH 3443, 4223; ART 3693, 4603, 4653, 4663, 4673, 4683; ECON 4643; ENGL 3173, 3183; ENGL 3190 (African Novel); GEOG 3753, 3783; HIST 1713, 3013, 3053, 3203, 3403, 3413, 3423, 3433, 3503, 3513, 3523, 3543, 3553; HONR 3033; JAPN 1225, 2113, 2223; MUSI 3583; PHIL 3943; POLS 3053, 3313; REL 3573, 3613, 4050 (Understanding Islam), 4113; RUSS 3053; SOC 4533, 4653.

## 3. Foreign Language Proficiency

- a. The foreign language requirement for the B.A. may be satisfied by 10 hours college credit in the same language, or equivalent proficiency (e.g., passing an advanced standing examination; completing a second-year or higher college-level course in the language, etc.).
- b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second year level of study). It may also be satisfied by any of the options listed above for the B.A.

## 4. Exclusions

- a. Courses used to satisfy the English Composition, American History and Government requirement will not count toward the 54 hour maximum allowed from one department.
- b. Courses with ATHL or LEIS prefix and leisure activity courses may not be used for degree credit in the College of Arts & Sciences.

## 5. Teacher Certification

Students can satisfy the requirements for secondary schools teaching certification while earning a B.A. or B.S. in the College of Arts & Sciences. Those interested should see their Arts and Sciences adviser and the OSU Professional Education Unit in room 325 Willard.