



**COLLEGE OF AGRICULTURAL SCIENCES & NATURAL RESOURCES**  
**OKLAHOMA STATE UNIVERSITY**

**General Requirements for Students Matriculating in Academic Year 2011-2012**

**BACHELOR of SCIENCE in AGRICULTURAL SCIENCES and NATURAL RESOURCES**

**MAJOR: Biochemistry and Molecular Biology**

**Minimum Overall Grade Point Average: 2.00**

**Total Hours: 120**

**(cumulative graduation/retention GPA)**

*Other GPA requirements see below.*

<b>GENERAL EDUCATION REQUIREMENTS: 39 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 (See Academic Regulation 3.5 in Catalog)
American History & Government	6	HIST 1103; POLS 1113
Analytical & Quantitative Thought (A)	7	MATH 2144* and 2153*
Humanities (H)	6	Any course designated (H); must include one lower-division course.
Natural Sciences (N)	8	CHEM 1314*; PHYS 1114* (or 2014*)
Social & Behavioral Sciences (S)	6	AGEC 1114* & any course designated (S)
Diversity (D)	--	Any course designated (D)
International Dimension (I)	--	Any course designated (I)
Scientific Investigation (L)	--	Any course designated (L)
*College & Departmental requirements that may be used to meet GE requirements.		
<b>COLLEGE/DEPARTMENTAL REQUIREMENTS: 33 HOURS</b>		
Agricultural Sciences and Natural Resources	5	AG 1011 and two courses from the following: Animal Science, Plant Science, and Soil Science (If courses used under major requirement, hours in this area are 1)
Additional Requirements	28	BIOL 1114; CHEM 1515; ENGL 3323; MICR 2123 & 2132; PHYS 1214 (or 2114); SPCH 2713; ZOOL 1604 (or BOT 1404)

<b>MAJOR REQUIREMENTS: 40 HOURS</b>	
BIOC	3713, 3723, 3813, 4224 (or CHEM 3433), 4883
BIOC	4990 (2 hours)
BIOL	3023 (or ANSI 3423 or PLNT 3554)
CHEM	2113, 3053, 3112, 3153
<b>At least one course from:</b> BOT 3463, ENTO 3044, ZOOL 3204, 4215	
Hours from the following (or related courses with adviser approval)	
<b>To total 40 hours:</b>	
ANSI	3543 (required for pre-vet students)
BIOC	1990*(up to 2hrs), 2101, 2200 (1-6 hrs), 4113, 4990*, 5753, 5853
BIOL	3034
BOT	3462, 3463
CHEM	2122, 3353, 3532, 3553, 4020 (1-5 hours), 4320 (1-3 hours)
ENTO	4854
MATH	2163, 2233, 3013, 3263
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, 4103, 4133, 4134, 4223, 4231, 4273, 4283, 4293, 4303, 4503
*Note: Total from BIOC 1990 and 4990 may not exceed 10 hours.	
<b>ELECTIVES: 8 HOURS</b>	
Hours to complete required total.	

**Other Requirements:**

A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above. A 2.00 GPA or higher in upper-division hours. 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

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DEAN

DEPARTMENT HEAD