



**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    OPTION: Pre-Medical or Pre-Veterinary Science**

**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 course 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>	
<b>Core Courses 17 Hours</b>	
<b>Required for Options 1 &amp; 2</b>	
BIOC 3713, 3723, 3813	CHEM 3053, 3112, 3153
<b>Choose Option 1 or Option 2</b>	
<b>Option 1:</b>	
With the approval of the adviser, department head, and dean, hours of basic sciences from an accredited chiropractic, dental, medical, optometry, osteopathic, pharmacy, podiatry, or veterinary medical school to total 40 hours.	
<b>Option 2:</b>	
BIOC 4883	
BIOL 3023 (or ANSI 3423 or PLNT 3554)	
<b>At least one course chosen from:</b> BOT 3463, ENTO 3044, ZOOL 3204, 4215	
Hours from the following <b>to total 40 hours:</b> (or related courses with adviser's approval)	
ANSI 3543 (Required for Pre-vet Students)	
BIOC 1990*(up to 2 hrs), 2101, 2200 (1-6 hrs), 4113, 4224 (or CHEM 3433), 4990*, 5753, 5853	
BIOL 3034	
BOT 3462	
CHEM 2113, 2122, 3353, 3532, 3553, 4020 (1-5 hrs), 4320 (1-3 hrs)	
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, 4104, 4133, 4134, 4223, 4231, 4273, 4283, 4293, 4303, 4503	
*Note: Total from BIOC 1990 and 4990 may not exceed 10 hours.	

**ELECTIVES: 8 HOURS.**

**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