



**COLLEGE OF ENGINEERING, ARCHITECTURE & TECHNOLOGY**  
**OKLAHOMA STATE UNIVERSITY**

Requirements for Students Matriculating in or before Academic Year 2013-2014

**BACHELOR of SCIENCE in BIOSYSTEMS ENGINEERING**

**MAJOR: Biosystems Engineering**

**OPTION: Bioprocessing & Biotechnology**

**Minimum Overall Grade Point Average: 2.00**

**Total Hours: 133**

*(Cumulative Graduation/Retention GPA), other GPA requirements see below.*

<b>GENERAL COURSES: 32 HOURS</b>			<b>MAJOR REQUIREMENTS/PROFESSIONAL SCHOOL</b>		
<i>Underlined courses identify courses that must be completed prior to admission to professional school.</i>			<b>COMMON PROFESSIONAL SCHOOL: 42 HOURS</b>		
Area	Hours	To be selected from:	Area	Hours	To be selected from:
English Composition & Oral Communication	6	<u>ENGL 1113 or 1313, 1213 or 1413</u> (3323 may be substituted for 1213, subject to Academic Regulation 3.5)	Mathematics	3	STAT 2013, 2023, or 2053
American History & Government	6	HIST 1103, POLS 1113	Engineering Science	6	ENSC 2143, 2613
Analytical & Quantitative Thought (A)	13	<u>MATH 2144, 2153, 2163, 2233</u>	Engineering Economics	3	IEM 3503
Natural Sciences (N)	4	<u>CHEM 1414</u>	Biosystems Engineering	21	BAE 3013, 3023, 3113, 3213, 3313, 4001, 4012, 4023
Social & Behavioral Sciences(S)	3	Any course designated (S).	Social & Behavioral Sciences(S)	3	Any course designated (S).
Diversity (D)	--	Any course designated (D). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	Humanities (H)	6	Any courses designated (H).
International Dimension (I)	--	Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	<b>SPECIFIC PROFESSIONAL SCHOOL: 22 HOURS</b> <i>Admitted to Professional School of Biosystems Engineering.</i>		
Scientific Investigation (L)	--	Any course designated (L). Met by the CHEM 1414 requirement.	Biosystems Engineering	3	BAE 4283
<b>COLLEGE/DEPARTMENTAL REQUIREMENTS: 37 HOURS</b>			Microbiology	5	MICR 2123, 2132
Basic Science	12	<u>BIOL 1114, PHYS 2014, 2114</u>	Organic Chemistry	3	CHEM 3013
Engineering	4	ENGR 1322, 1412	Biochemistry	3	BIOC 3653
Biosystems Engineering	9	BAE 1012, 1022, <u>2012, 2023</u>	Biochemistry Lab	3	BIOC 3723
Engineering Science	12	ENSC 2113, 2123, 2213, 3233 <u>Complete ENSC 2113, 3233, and 2 other ENSC courses prior to admission to Professional School.</u>	Controlled Electives	5	Engineering and/or science electives to be selected from an approved list upon consultation with an advisor.

**Admission to Professional School (required):**

Refer to the OSU Catalog corresponding to your matriculation date for detailed admissions requirements.

**Graduation Requirements:**

1. A minimum GPA of 2.00 is required in Professional School coursework (right hand column above).
2. A 'C' or better is required in each course that is a prerequisite for a major course.
3. The major engineering design experience is satisfied by 4012 and 4023.

**Additional State/OSU Requirements** – At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU. Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence 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. Degrees that follow this plan must be completed by the end of Summer 2019.

**Note:** All General Education coursework requirements are satisfied upon completion of this degree plan.

Signature on file in the Office of the Registrar

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Dean

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Department Head