



# OKLAHOMA STATE UNIVERSITY

## COLLEGE OF ENGINEERING, ARCHITECTURE AND TECHNOLOGY

GENERAL REQUIREMENTS FOR STUDENTS MATRICULATING IN ACADEMIC YEAR: 2008-2009

### BACHELOR OF SCIENCE IN BIOSYSTEMS ENGINEERING

MAJOR BIOSYSTEMS ENGINEERING OPTION BIOPROCESSING & BIOTECHNOLOGY

MINIMUM OVERALL GRADE-POINT AVERAGE: 2.00 TOTAL HOURS: 133  
 Other GPA requirements, see below.

GENERAL EDUCATION REQUIREMENTS <u>38</u> HOURS			MAJOR REQUIREMENTS <u>68</u> HOURS		
			COMMON PROFESSIONAL SCHOOL <u>46</u> HOURS		
Underlined courses below are Pre-Engineering requirements used simultaneously to meet General Education requirements.			Mathematics	3	STAT 4073
English Composition and Oral Communication	6	ENGL 1113 or 1313, 1213 or 1413.	Engineering Science	3	ENSC 3233
American History and Government	6	HIST 1103; POLS 1113	Basic Science	4	BIOL 1114
Analytical and Quantitative Thought (A)	13	MATH <u>2144</u> , <u>2153</u> , 2163, 2233	Engineering Economics	3	IEM 3503
Humanities (H)	6	Any course designated (H) at OSU. Consult the college and departmental requirements.	Biosystems Engineering	30	BAE 1012, 1022, 2012, 2023, 3013, 3023, 3113, 3213, 3313, 4001, 4012, 4023
Natural Sciences (N)	4	CHEM <u>1414</u>	Social and Behavioral Sciences (S)	3	Any course designated (S) at OSU. Consult the college and departmental requirements.
Social and Behavioral Sciences (S)	3	Any course designated (S) at OSU. Consult the college and departmental requirements.	SPECIFIC OPTION REQUIREMENTS <u>22</u> HOURS		
Diversity (D)	-	Any course designated (D). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	Admitted to the Professional School of Biosystems Engineering. (See Professional School Admission Requirements in the Catalog)		
International Dimension (I)	-	Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	Biosystems Engineering	3	BAE 4283
Scientific Investigation (L)	-	Any course designated (L). Normally met by Natural Science and/or Basic Science requirements.	Microbiology	5	MICR 2123, 2132
COLLEGE/DEPARTMENTAL REQUIREMENTS PRE-ENGINEERING <u>27</u> HOURS			Organic Chemistry	3	CHEM 3053
Basic Science	8	PHYS <u>2014</u> , <u>2114</u>	Biochemistry	3	BIOC 3653
Engineering	4	ENGR 1322, 1412	Biochemistry Lab	3	BIOC 3723
Engineering Science	15	ENSC <u>2113</u> , 2123, 2143, 2213, 2613	Controlled Electives	5	Engineering and/or science electives to be selected from an approved list upon consultation with an adviser.

**Other Requirements:**  
 A student must complete course work at OSU satisfying academic regulation 7.2.  
 A student must complete at least 60 hours at a senior college.  
 A 2.00 GPA is required in all course work listed in the right hand column above.  
 A "C" or better is required for all courses that are prerequisite to BAE courses.  
 Students will be held responsible for degree requirements in effect at the time of matriculation (date of first enrollment) 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.

*Karl N. Reid*  
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 DEAN

*Ronald L. Elliott*  
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 DEPARTMENT HEAD