

# OKLAHOMA STATE UNIVERSITY

## GENERAL REQUIREMENTS

## COLLEGE OF

ENGINEERING, ARCHITECTURE AND TECHNOLOGY

For students matriculating:

Academic Year ..... 2005-06

## BACHELOR OF

SCIENCE IN BIOSYSTEMS ENGINEERING

Total hours ..... 133

Minimum overall grade-point average ..... 2.00

Other GPA requirements, see below.

DEGREE  
BIOSYSTEMS ENGINEERING  
MAJOR  
(BIOPROCESSING & BIOTECHNOLOGY)  
OPTION

General Education Requirements <u>41</u> Hours		
Area	Hrs	To Be Selected From
Underlined courses below are Pre-Engineering requirements used simultaneously to meet General Education requirements.		
English Composition and Oral Communication	6	ENGL 1113 or 1313, 1213 or 1413.
American History and Government	6	HIST 1103 POLS 1113
Analytical and Quantitative Thought (A)	13	MATH <u>2144</u> , <u>2153</u> , <u>2163</u> , <u>2233</u>
Humanities (H)	6	Courses designated (H) at Oklahoma State University. Consult the college and departmental requirements.
Natural Sciences (N)	4	CHEM <u>1414</u>
Social and Behavioral Sciences (S)	6	Courses designated (S) at Oklahoma State University. Consult the college and departmental requirements
International Dimension (I)	-	Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.
Scientific Investigation (L)	-	Any course designated (L). Normally met by Natural Science and/or Basic Science requirements.
College/Departmental Requirements		
Pre-Engineering <u>27</u> Hours		
Basic Science	8	PHYS 2014, 2114
Engineering	4	ENGR 1322, 1412
Engineering Science	15	ENSC 2113, 2123, 2143, 2213, 2613

Major Requirements <u>65</u> Hours		
Common Professional School <u>44</u> Hours		
Mathematics	3	STAT 4073
Engineering Science	3	ENSC 3233
Basic Science	4	BIOL 1114
Engineering Economics	3	IEM 3503
Biosystems Engineering	31	BAE 1012, 1022, 2012, 2022, 3013, 3023, 3113, 3213, 3313, 3413, 4001, 4012, 4022
Specific Option Requirements <u>21</u> Hours		
Admitted to the Professional School of Biosystems Engineering. (See Professional School Admission Requirements in catalog)		
Biosystems Engineering	3	BAE 4283
Microbiology	5	MICR 2125
Organic Chemistry	3	CHEM 3053
Biochemistry	3	BIOC 3653
Biochemistry Lab	3	BIOC 3723
Controlled Electives	4	Engineering and/or science electives to be selected from an approved list upon consultation with an advisor.

Other Requirements: 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 these changes do not result in semester credit hours being added or do not delay graduation.

*Karl M. Reed*  
DEAN

*Ronald Z. Elliott*  
HEAD