



COLLEGE OF ENGINEERING, ARCHITECTURE & TECHNOLOGY
OKLAHOMA STATE UNIVERSITY

General Requirements for Students Matriculating in Academic Year 2009-2010

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.

GENERAL EDUCATION REQUIREMENTS: 38 HOURS			MAJOR REQUIREMENTS: 68 HOURS		
Area	Hours	To be selected from:	COMMON PROFESSIONAL SCHOOL: 46 HOURS		
Underlined courses below are Pre-Engineering requirements used simultaneously to meet General Education requirements.			Mathematics	3	STAT 2013, 2023, or 2053
English Composition & Oral Communication	6	ENGL 1113 or 1313, 1213 or 1413.	Engineering Science	3	ENSC 3233
American History & Government	6	HIST 1103; POLS 1113	Basic Science	4	BIOL <u>1114</u>
Analytical & 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 & 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 & Behavioral Sciences (S)	3	Any course designated (S) at OSU. Consult the college & departmental requirements.
Social & Behavioral Sciences (S)	3	Any course designated (S) at OSU. Consult the college & departmental requirements.	SPECIFIC OPTION REQUIREMENTS: 22 HOURS		
Diversity (D)	–	Any courses 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 <i>Catalog</i> .)		
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 Sciences and/or Basic Science requirements.	Microbiology	5	MICR 2123, 2132
COLLEGE/DEPARTMENTAL REQUIREMENTS			Organic Chemistry	3	CHEM 3053
PRE-ENGINEERING: 27 HOURS			Biochemistry	3	BIOC 3653
Basic Science	8	PHYS <u>2014</u> , <u>2114</u>	Biochemistry Lab	3	BIOC 3723
Engineering	4	ENGR 1322, 1412	Controlled Electives	5	Engineering and/or science electives to be selected from an approved list upon consultation with an adviser.
Engineering Science	15	ENSC 2113, 2123, 2143, 2213, 2613			
Other Requirements:					
A student must complete course work at OSU satisfying academic regulation 7.2.					
A student must complete at least 60 credit 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 in each course that is a prerequisite to BAE courses.					
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.					

Karl N. Reind
 DEAN

Ronald Z. Elliott
 DEPARTMENT HEAD