

**Analysis of Graduation Requirements
Biological Systems Engineering
University of Nebraska-Lincoln
2015 - 2016 Bulletin**

Name:
Emphasis Area:

Student ID:

Date of Analysis:
Expected Grad. Date:

Course	Cr Hrs	ACE SLO	Semester/Year			Substitute or Transfer Course & Institution	Cr Hrs
			Completed	In Progress	Still Need		
MATHEMATICS & STATISTICS (19 cr)							
MATH 106	5	3					
MATH 107	4	3					
MATH 208	4	3					
MATH 221	3	3					
MECH 321 or MATH 380	3						
BASIC SCIENCES (31 cr)							
LIFE 120 & 120L	4	4					
LIFE 121 & 121L	4	4					
BIOC 321 or BIOC 431	3						
BIOS elec*	4						
BIOC or BIOS elec*	1						
CHEM 109 or 113	4	4					
CHEM 110 or 114	3						
CHEM 251 or 255 or 261	3						
CHEM 253 or 257 or 263	1						
PHYS 211	4	4					
COMMUNICATION & ORG. SKILLS (6***-9 cr)							
JGEN 200	3	1					
Oral Skills**	3	2					
Organizational Skills***	3						
GENERAL EDUCATION (15 cr)							
ACE elec:	3	5				History and the Humanities	
ACE elec:	3	6				Social Sciences and Human Behavior	
ACE elec:	3	7				The Arts	
ACE elec****:	3	8				Ethics, Civics, Stewardship	
ACE elec:	3	9				Global Awareness and Human Diversity	
SUBTOTAL							

*A minimum of 2 laboratory courses or 2 courses with laboratories is required within the 16 hours of biological science and biochemistry courses. BIOS 203 is not acceptable.

**Course must be chosen from courses listed in online Bulletin.

***Courses must be chosen from courses on a list available from the adviser. Some of the Organizational Skills courses fulfill an ACE 2, 6, 8, or 9 requirement as well. If so, the 3 credits must be used for additional emphasis electives, and the Communications & Organizational Skills requirement, in effect, becomes 6 credits.

**** If BSEN 206 is used to fill ACE 8 requirement the Emphasis Area subtotal becomes 24 or 27 credits.

UNL ACE Requirements Met? Yes No

Signatures & Dates

Student:

Dept. Head:

Advisor:

College Dean:

Analysis of Graduation Requirements for Biological Systems Engineering (*cont'd*)

Course	Cr Hrs	Engr Hrs	ACE SLO	Semester/Year			Substitute or Transfer Course & Institution	Cr Hr
				Completed	In Progress	Still Need		
ENGINEERING SCIENCE & DESIGN (38 cr)								
<i>Biological Systems Engineering Core (22 cr)</i>								
BSEN 100	1	1						
BSEN 112	2	2						
BSEN 130	2	2						
BSEN 212a, b or e	1	1						
BSEN 225	3	3						
BSEN 244	3	3						
BSEN 344	3	3						
BSEN 460	3	3						
BSEN 470	1	1						
BSEN 480	3	3	10					
<i>Engineering Seminars (1 cr)</i>								
ENGR 010 (030)	0	0						
ENGR 020	0	0						
ENGR 400	1	1						
<i>Engineering Core (15 cr)</i>								
MECH 223	3	3						
MECH 373	3	3						
CIVE or MECH 310 or CHME 332	3	3						
ELEC 211	3	3						
BSEN 206	3	3						
SUBTOTAL	38							
EMPHASIS AREA* (21-27**cr)								
1 st BSEN course:	3	3						
2 nd BSEN course:	3	3						
3 rd BSEN course:	3	3						
4 th BSEN course:	3	3						
5 th Engineering course:	3	3						
Engr or Sci elec:	3							
Engr or Sci elec:	3							
Potential added elective **								
Potential added elective **								
SUBTOTAL								
GRAND TOTAL								
Total BSEN Requirements	133	48†						

* A minimum of 15 hours of emphasis electives must be selected from courses offered by the College of Engineering. Within the 15 hours, a minimum of 12 hours must be BSEN or engineering courses crosslisted with BSEN. Of the BSEN or BSEN crosslisted courses, at least one must be a 300-level course of a primary emphasis area, one must be a 300-level course of a secondary emphasis area and one must be a 400-level course of a primary emphasis area (see online Bulletin). Water and Environment Emphasis requires both BSEN 326 and BSEN 350 as primary emphasis courses, Food and Bioproducts Emphasis requires BSEN 303 and Biomedical Emphasis requires BSEN 317 as primary emphasis area courses.

** Some of the Communications and Organizational Skills courses fulfill an ACE 2, 6, 8, or 9 requirement as well. If one of those courses is chosen, 3 credits must be moved to a student's emphasis electives making the Emphasis Area subtotal equal 24-27 credits.

† Minimum accreditation requirement