

Name: _____ Exp. Grad.: Fall _____ / Spring _____

**Biomaterials Engineering
Curriculum by Semester**
(For students entering Fall 2017 – Spring 2018)

Semester 1		Semester 2		Semester 3		Semester 4	
Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X
CHEM 105 (4)		BIOL 150 (4)		CEMS 214 (3)		BIOL 211 (4)	
ENGL 101 (4)** (if needed)		CHEM 106 (4)		ENGR 110 (4)		CEMS 215 (3)	
ENGR 101 (2)		ENGR 104 (2)		ENGR 360 (0)		CEMS 216 (3)	
ENGR 102 (2)		ENGR 160 (0)		MATH 253 (4)		CEMS 235 (4)	
ENGR 160 (0)		MATH 152 (4)		PHYS 125 (4)		ENGR 360 (0)	
MATH 151 (4)		ENGR 11x* (1)		Hum/SS/Arts (4)		MATH 271 (3)	
Hum/SS/Arts (4)		ENGR 11x* (1)					
		*Select 2 ENGR 111-116 Engr Explorations Labs					
Total (16)		Total (16)		Total (15)		Total (17)	

**Credits do not count towards graduation

Semester 5		Semester 6		Semester 7		Semester 8	
Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X
CEMS 347 (2)		BIOL 402 (4)		CEMS 336 (3)		BIOL Elective (4)	
CEMS 349 (2)		CEMS 251 (3)		CEMS 465 (4)		BIOL Elective (4)	
CEMS 368 (3)		CEMS 334 (3)		CEMS 466 (3) or BIOL 307 (4)		ENGR 360 (0)	
ENGR 306 (2)		CHEM 310 (3)		CEMS 468 (3)		ENGR 480 (2)	
ENGR 360 (0)		ENGR 305 (3) or BIOL 226 (4)		ENGR 360 (0)		Tech Elective (3)	
Tech Elective (3)		ENGR 360 (0)		ENGR 480 (2)		Hum/SS/Arts (4)	
Hum/SS/Arts (4)		ENGR 395 (2)					
Total (16)		Total (18-19)		Total (16-17)		Total (17)	

Additional Requirements:

1. AU Global Perspective
2. AU Physical Education Requirement
3. SOE Minimum Credit Requirement: At least 128 credits, excluding physical education
4. SOE GPA requirement and 'D' policy
5. SOE Written Communication Requirement: Typically ENGL 101 and ENGR 110. Some students may be exempt from ENGL 101, which does not count towards the minimum credits required for graduation.
6. SOE Humanities/Social Science/Arts Requirement

Current SOE requirements

Degree Evaluation

Definitions of Electives:

BIOL Electives: BIOL 302, BIOL 307, BIOL 308, BIOL 420, BIOL 422

Engineering Electives: Most courses with ENGR, CEMS, MECH and RNEW designation,
≥ 300 level

Technical Electives: (1) Most 300- and 400-level courses designated CEMS, CHEM, ENGR, MATH, MECH, PHYS, or RNEW. Exceptions include MATH 331 and some special topic courses.

Name: _____ Exp. Grad.: Fall _____ / Spring _____

Biomaterials Engineering (BME) Progress toward Degree (1/2)

(For students entering Fall 2017 – Spring 2018)

Directions: Before submitting an **Application for Graduation** to the Registrar's Office, students should complete this **Progress toward Degree Form** in consultation with their advisor.

Written Communication Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
ENGL 101 or equivalent	0		
ENGR 110 – Technical Comm.	4		

Humanities / Social Science / Arts Requirement	Substitution/Waiver/Transfer & Institution, if not AU	Designation A,B,C,D,E, II	Cr. Hrs. or IP*
Total Hum/SS/ Arts (≥ 16 cr. hrs.)			

Humanities/Social Science/Arts Additional Requirement	Check if met (X)
At least 16 credits (excluding ENGL 101 and ENGR 110)	
At least 3 Designated Areas	
No more than 4 credit hours of Arts counting towards 16 credits	

Mathematics Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
MATH 151	4		
MATH 152	4		
MATH 253	4		
MATH 271	3		
ENGR 305 or BIOL 226	3		
Mathematics Total	18		

Chemistry Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
CHEM 105	4		
CHEM 106	4		
CHEM 310	3		
Chemistry Total	11		

Physics Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
PHYS 125	4		
Physics Total	4		

**Enter number of credit hours completed or IP=In progress*

Name: _____ Exp. Grad.: Fall _____ / Spring _____

Biomaterials Engineering (BME) Progress toward Degree (2/2)

(For students entering Fall 2017 – Spring 2018)

Biology Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
BIOL 150	4		
BIOL 211	4		
BIOL 402	4		
BIOL Elective	4		
BIOL Elective	4		
Biology Total	20		

Basic Engineering Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
ENGR 101	2		
ENGR 102	2		
ENGR 104	2		
ENGR 111-116 (select 2)	2		
Basic Engineering Total	8		

BE Requirement	Req. Cr. hrs.	Substitution/Waiver/Transfer & Institution, if not AU	Cr. Hrs. or IP*
CEMS 214	3		
CEMS 215	3		
CEMS 216	3		
CEMS 235	4		
CEMS 251	3		
CEMS 334	3		
CEMS 336	3		
CEMS 347	2		
CEMS 349	2		
CEMS 368	3		
CEMS 465	4		
CEMS 466 or BIOL 307	3		
CEMS 468	3		
ENGR 306	2		
ENGR 395	2		
ENGR 480	4		
Technical Elective I	3		
Technical Elective II	3		
BE Total	53		

Additional Requirements	Substitution/ waivers, if any	Check if Met (X)
Engineering seminar		
Global Perspective		
ENGR GPA and "D" Policy	N/A	
Physical Education / Wellness I		
Physical Education / Wellness II		
Total Eligible Credits \geq 125	(excluding ENGL 101 & Phys. Ed. Credits)	

**Enter number of credit hours completed or IP=In progress*