

Name: _____

Exp. Grad.: Fall ____ / Spring ____

Biomaterials Engineering
Suggested Curriculum by Semester for students entering Fall 2019 – Spring 2020

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)*		CHEM 106 (4)		ENGR 110 (4)		CEMS 215 (3)	
ENGR 101 (2)		ENGR 160 (0)		ENGR 360 (0)		CEMS 216 (3)	
ENGR 102 (2)		MATH 152 (4)		MATH 253 (4)		CEMS 235 (4)	
ENGR 160 (0)		PHYS 125 (4)		PHYS 126 (4)		ENGR 360 (0)	
MATH 151 (4)		Two of ENGR 111-116 Eng. Explorations (1+1)		Hum/SS/Arts (4)		MATH 271 (3)	
UNIV 101 (1)							
Hum/SS/Arts (3)							
Total (16)		Total (18)		Total (19)		Total (17)	

*ENGL 101 if required (credits not counted for graduation); otherwise student choice meeting a requirement.

** Students who have taken any college level BIOL course should consult with the Chair of Biology to determine if that course substitutes for BIOL 150.

Semester 5		Semester 6		Semester 7		Semester 8	
Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X	Course (cr. hr.)	X
BIOL 307 [^] (odd) (4)		CEMS 251 (3)		BIOL 307 [^] (odd) (4)		CEMS 344 (4)	
BIOL 402 (even) (4)				BIOL 402 (even) (4)			
Elective [°] (odd) (3)				Elective [°] (odd) (3)			
CEMS 237 (4)		CEMS 334 (3)		CEMS 336 (3)		ENGR 360 (0)	
CEMS 368 (3)		CEMS 466 [^] (3) or Elective [°] (3)		CEMS 342 (4)		ENGR 480 (2)	
ENGR 306 (2)		CHEM 310 ⁺ (3)		CEMS 465 (3)		Elective ^{°+} (3)	
ENGR 360 (0)		ENGR 305 (3)		CEMS 468 (3)		Elective ^{°+} (4)	
Hum/SS/Arts (4)		ENGR 360 (0)		ENGR 360 (0)		Hum/SS/Arts (4)	
		ENGR 395 (2)		ENGR 480 (2)			
Total (16 or 17)		Total (17)		Total (19 or 18)		Total (17)	

[^]Choose either BIOL 307 or CEMS 466 to apply to the degree.

Total Credits: 135

[°]Nine credits of electives as defined below with a minimum of 6 credits of BME electives.

⁺ CHEM 315 (4) and CHEM 316 (4) may substitute for CHEM 310 and 5 credits of BME Electives.

Requirements:

1. AU Global Perspective
2. AU Wellness & Physical Education Requirement
3. SOE Minimum Credit Requirement of 128 credits, excluding Physical Education, Wellness, ENGL 101
4. SOE GPA requirement and 'D' policy
5. SOE Seminar requirement
6. SOE Written Communication Requirement: Typically ENGL 101 and ENGR 110. ENGR 101 does not count towards the minimum credits for graduation; some students may be exempt.
7. SOE Humanities/Social Science/Arts Requirement (20 credits including ENGR 110 and UNIV 101 with courses having a minimum of three attributes: A/B, C, D, E, II)
8. Defense of Capstone Poster & submission of approved Thesis.

Complete SOE requirements are available on pages 58-64 of the [AU Undergraduate Catalog 2019-2020](#)

Degree Evaluation, including What-If or via *DegreeWorks*.

Definitions of Electives:

BME Electives: BIOL 302, BIOL 308, BIOL 405, BIOL 420, BIOL 422, non-required CEMS 36x or 46x

Technical Electives: (A) Most 300- and 400-level courses designated CEMS, CHEM, ENGR, MATH, MECH, PHYS, or RNEW. Exceptions include MATH 331 and some special topic courses. (B) One of FIN 348 or MGMT 328, (C) COOP 385.

Revised: 08/16/19