

Name: _____

Exp. Grad.: Fall ____ / Spring ____

Materials Science and 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)		CHEM 106 (4)		CEMS 214 (3)		CEMS 215 (3)	
ENGL 101 (4)*		ENGR 104 (2)		ENGR 110 (4)		CEMS 216 (3)	
ENGR 101 (2)		ENGR 160 (0)		ENGR 360 (0)		CEMS 235 (4)	
ENGR 102 (2)		MATH 152 (4)		MATH 253 (4)		ENGR 360 (0)	
ENGR 160 (0)		PHYS 125 (4)		PHYS 126 (4)		MATH 271 (3)	
MATH 151 (4)		Two of ENGR		Hum/SS/Arts (4)		Hum/SS/Arts (4)	
UNIV 101 (1)		111-116 Eng.					
Hum/SS/Arts (3)		Explorations (1+1)					
Total (16)		Total (16)		Total (19)		Total (17)	

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

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 237 (4)		CEMS 251 (3)		CEMS 314/316 (3)		CEMS 446 (3)	
CEMS 322 (3)		CEMS 334 (3)		CEMS 336 (3)		ENGR 360 (0)	
CEMS 347 (2)		CEMS 344 (4)		CEMS 342 (4)		ENGR 480 (2)	
CEMS 349 (2)		ENGR 220 (4)		ENGR 360 (0)		Elective° (3)	
ENGR 305 (3)		ENGR 395 (2)		ENGR 480 (2)		Elective° (3)	
ENGR 306 (2)		ENGR 360 (0)		Elective° (3)		Hum/SS/Arts (4)	
ENGR 360 (0)		Elective° (3)					
Total (16)		Total (19)		Total (15)		Total (15)	

°Electives must be Technical (12) as defined below.

Total Credits: 133

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:

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.