

Name: _____

Exp. Grad.: Fall _____ / Spring _____

Ceramic Engineering
Suggested Curriculum Course Plan for students entering Fall 2022 – Spring 2023

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 (3) & CHEM 105L (1)		CHEM 106 (3) & CHEM 106L (1)		ENGR 110 (4)		CEMS 204 (4)	
ENGL 101 (4)*		ENGR 102 (2)		ENGR 204 (3)		CEMS 206 (3)	
ENGR 101 (2)		ENGR 104 (4)		ENGR 360 (0)		CEMS 207 (3)	
ENGR 117 (2)		ENGR 160 (0)		MATH 253 (4)		ENGR 360 (0)	
ENGR 160 (0)		MATH 152 (4)		PHYS 126 (4)		MATH 271 (3)	
MATH 151 (4)		PHYS 125 (4)		GenEd (3)		CEMS 203 (3)	
		UNIV 101 (1)					
Total (16)		Total (17)		Total (18)		Total (16)	

*ENGL 101 if required; otherwise ENGR 110 or student choice of GenEd (2-4).

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 304 (4)		CEMS 312 (3)		CEMS 342 (4)		ENGR 360 (0)	
CEMS 314 (3)		CEMS 344 (4)		ENGR 360 (0)		ENGR 480 (2)	
CEMS 322 (3)		ENGR 202 (3)		ENGR 480 (2)		°Cer Elective (3)	
CEMS 349 (2)		ENGR 306 [‡] (2)		Cer Elective° (3)		°Elective° (3)	
ELEC 221 or (ELEC 223 & ELEC 325) (4)		ENGR 360 (0)		°Elective° (3)		GenEd (4)	
ENGR 360 (0)		ENGR 395 [‡] (2)		GenEd (2)		GenEd (4)	
MECH 211 (3)		MECH 241 (3)					
Total (19)		Total (17)		Total (14)		Total (16)	

Total Credits: 133

°Twelve credits of electives as defined below with a minimum of six credits of Ceramic electives.

‡ENGR 486 (4) may be substituted for ENGR 306 (2) and ENGR 395 (2).

Definitions of Electives:

Ceramic Engineering Electives (minimum of 6 credits): CEMS 316(3), 318(3), 325(2), 328(3), 352(3), 411(3)/412, 415(3)/414, 438(3), 468(3), 408(3).

Electives: (A) Most 300- and 400-level courses designated CEMS, CHEM, ELEC, ENGR, MATH, MECH, PHYS, or RNEW. Exceptions include: CHEM 343, MATH 331, MECH 320, and Topics courses unless approved by the Dean.

(B) One of FIN 348 or MGMT 328, (C) COOP 385.

Requirements:

8. AU Global Perspective
9. AU Wellness & Physical Education
10. SOE Minimum Credit Requirement of 128 credits
11. SOE GPA requirement and 'D' policy
12. SOE Seminar requirement
13. SOE General Education Requirement of 60 credits comprising: Quantitative Reasoning, Humanities (minimum of **six credits with at least two different acronyms**, Natural Science, Social Science (minimum of **three credits**), AU Wellness, Written Communication, and General/Arts (maximum of eight credits).
14. Defense of Capstone Poster & submission of approved Thesis. (Thesis **ENGR 490 2+2** with the same instructor).

Complete SOE requirements are available in the AU Undergraduate Catalog [2022-2023](#).<https://alfred.edu/academics/undergrad-majors-minors/catalog.cfm>Degree Evaluation, including What-If, available at <https://banweb.alfred.edu/> or via DegreeWorks.