

Name: \_\_\_\_\_

Exp. Grad.: Fall \_\_\_\_ / Spring \_\_\_\_

**Renewable Energy Engineering**  
**Suggested Curriculum Course Plan for students entering Fall 2023 – Spring 2024**

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)		ENGR 220/ELEC 221 (4)	
ENGL 101 (4)*		ENGR 102 (2)		ENGR 360 (0)		CSCI 156 (4) or RNEW 303 (4)	
ENGR 101 (2)		ENGR 104 (2)		MATH 253 (4)		ENGR 202 (3)	
ENGR 117 (2)		ENGR 160 (0)		PHYS 126 (4)		ENGR 360 (0)	
ENGR 160 (0)		MATH 152 (4)		RNEW 201 (3)		MATH 271 (3)	
MATH 151 (4)		PHYS 125 (4)		Gen Ed (3)		MECH 212 (3)	
		UNIV 101 (1)					
<b>Total (17)</b>		<b>Total (17)</b>		<b>Total (18)</b>		<b>Total (17)</b>	

\*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
ENGR 360 (0)		ENGR 360 (0)		ENGR 360 (0)		ENGR 360 (0)	
MECH 320 (3)		MECH 326 (3)		RNEW 355 (3)		ENGR 486 (4)	
MECH 324 (3)		MECH 354 (3)		ENGR 490 (2)		ENGR 490 (2)	
MECH 435 (3)		MECH 422 (3)		RNEW 310 (3)		RNEW 431 (3)	
ENGR 320/ELEC 321 (4)		°Elective (3)		RNEW 468 (3)		RNEW 432 (3)	
RNEW 322 (3)		GenEd (4)		GenEd (4)		°Elective (3)	
GenEd (2)				WELL (2)			
<b>Total (18)</b>		<b>Total (16)</b>		<b>Total (17)</b>		<b>Total (15)</b>	

**Total Credits: 134****°Definitions of Renewable Energy Engineering Electives (6 credit required total):**

Electives: (A) Most 300- and 400-level courses designated CEMS, CHEM, ELEC, ENGR, MATH, MECH, PHYS, or RNEW. Exceptions include CHEM 343 and MATH 331 and Topics courses unless approved by the Dean. (B) One of FIN 348 or MGMT 328, (C) COOP 385.

**Requirements:**

- AU Global Perspective
  - AU Wellness & Physical Education: Well (ATHT 111, 190, 215, 222, BIOL 105, 120, DANC 120, 200, 222, 223, 224, 226, PSYC 251, 322, 351, WELL 100, 101, WGST 351, PFIT: Varsity sport for one season, physical fitness test, any course with PFIT designation which includes some Equestrian, Dance, and ROTC courses.
  - SOE Minimum Credit Requirement of 128 credits
  - SOE GPA requirement of 2.0 and no more than 7 credits of D or D+ in engineering required courses
  - SOE Seminar requirement
  - 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 four credits), AU Wellness, Written Communication, and General/Arts (maximum of eight credits).
  - Defense of Capstone Poster & submission of approved Thesis. (Project ENGR 490 2+2 with the same instructor).
- Complete SOE requirements are available in the AU Undergraduate Catalog 2023-2024.  
<https://alfred.edu/academics/undergrad-majors-minors/catalog.cfm>  
 Degree Evaluation, including What-If, available at <https://banweb.alfred.edu/> or via DegreeWorks.