

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

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

**Mechanical 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)		ELEC 221 or (ELEC 223 & ELEC 325) (4)	
ENGL 101 (4)*		ENGR 102 (2)		ENGR 204 (3)		ENGR 360 (0)	
ENGR 101 (2)		ENGR 104 (2)		ENGR 360 (0)		MATH 271 (3)	
ENGR 117 (2)		ENGR 160 (0)		MATH 253 (4)		MECH 212 (3)	
ENGR 160 (0)		MATH 152 (4)		MECH 211 (3)		MECH 241 (3)	
MATH 151 (4)		PHYS 125 (4)		PHYS 126 (4)		GenEd (3)	
		UNIV 101 (1)					
<b>Total (16)</b>		<b>Total (17)</b>		<b>Total (19)</b>		<b>Total (16)</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 202 (3)		ENGR 360 (0)		ENGR 360 (0)		ENGR 360 (0)	
ENGR 360 (0)		MATH 371 (4)		ENGR 490 (2)		ENGR 486 (4)	
MECH 320 (3)		MECH 321 (3)		MECH 366 (3)		ENGR 490 (2)	
MECH 324 (3)		MECH 326 (3)		MECH 417 (3)		°Elective (3)	
MECH 343 (2)		MECH 327 (2)		°Elective (3)		°Elective (3)	
MECH 362 (3)		MECH 364 (3)		GenEd (4)		GenEd (4)	
GenEd (2)		WELL (2)					
<b>Total (16)</b>		<b>Total (17)</b>		<b>Total (15)</b>		<b>Total (16)</b>	

**Total Credits: 131****°Definitions of Mechanical Engineering Electives (9 total credits):**

Program Specific Electives (6 cr min): RNEW 310, RNEW 322, RNEW 431, RNEW 432, PHYS 421, PHYS 423, ENGR 484, CEMS 438, CEMS 336, CEMS 446, any non-required MECH 4xy course.

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

**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.