

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

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

**Mechanical Engineering**  
**Suggested Curriculum Course Plan for students entering Fall 2021 – Spring 2022**

| 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 106(1) |   | CEMS 214 or ENGR 204 (3) |   |                                       |   |
| ENGL 101 (4)*               |   | ENGR 104 (2)               |   | ENGR 108 (3)             |   | ENGR 220/ELEC 221 or ELEC 223/225 (4) |   |
| ENGR 101 (2)                |   | ENGR 160 (0)               |   | ENGR 360 (0)             |   | ENGR 360 (0)                          |   |
| ENGR 117 (2)                |   | MATH 152 (4)               |   | MATH 253 (4)             |   | MATH 271 (3)                          |   |
| ENGR 160 (0)                |   | PHYS 125 (4)               |   | MECH 211 (3)             |   | MECH 212 (3)                          |   |
| MATH 151 (4)                |   | ENGR 102 (2)               |   | PHYS 126 (4)             |   | MECH 241 (3)                          |   |
| UNIV 101 (1)                |   |                            |   |                          |   | GenEd (3)                             |   |
| ENGR 106 (1)                |   |                            |   |                          |   |                                       |   |
| <b>Total (18)</b>           |   | <b>Total (16)</b>          |   | <b>Total (17)</b>        |   | <b>Total (16)</b>                     |   |

\*ENGL 101 if required ; otherwise 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 305 or ENGR 202 (3) |   | ENGR 360 (0)      |   | ENGR 306 <sup>†</sup> (2) |   | ENGR 360 (0)              |   |
| ENGR 360 (0)             |   | MATH 371 (4)      |   | ENGR 360 (0)              |   | ENGR 395 <sup>‡</sup> (2) |   |
| MECH 320 (3)             |   | MECH 321 (3)      |   | ENGR 490 (2)              |   | ENGR 490 (2)              |   |
| MECH 324 (3)             |   | MECH 326 (3)      |   | MECH 366 (3)              |   | Elective <sup>°</sup> (3) |   |
| MECH 343 (2)             |   | MECH 327 (2)      |   | MECH 417 (3)              |   | Elective <sup>°</sup> (3) |   |
| MECH 362 (3)             |   | MECH 364 (3)      |   | Elective <sup>°</sup> (3) |   | GenEd (4)                 |   |
| GenEd (2)                |   |                   |   | GenEd (4)                 |   |                           |   |
| <b>Total (16)</b>        |   | <b>Total (15)</b> |   | <b>Total (17)</b>         |   | <b>Total (14)</b>         |   |

<sup>°</sup>Nine credits of electives as defined below.**Total Credits: 129**<sup>‡</sup>ENGR 486 (4) may be substituted for ENGR 306 (2) and ENGR 395 (2).**Requirements:**

- AU Global Perspective
- AU Wellness & Physical Education
- SOE Minimum Credit Requirement of 128 credits
- SOE GPA requirement and 'D' policy
- SOE Seminar requirement
- SOE General Education Requirement of 60 credits comprising: Quantitative Reasoning, Humanities (minimum of two courses with different subjects), Natural Science, Social Science (minimum of one course), AU Wellness, Written Communication, and General/Arts (maximum of eight credits).
- Defense of Capstone Poster & submission of approved project report. (Capstone 480 2+2 with the same instructor)

Complete SOE requirements are available in the AU Undergraduate Catalog 2020-2021.

<https://alfred.edu/academics/undergrad-majors-minors/catalog.cfm>Degree Evaluation, including What-If, available at <https://banweb.alfred.edu/> or via *DegreeWorks*.**Definitions of Electives:***MECH Electives: (choose two):* CEMS 438, CEMS 446, RNEW 310, RNEW 322, RNEW 431, RNEW 432, any non-required MECH 4xy course including MECH 415, 422, 424, 434, 435, 438.*Electives:* (A) Most 300- and 400-level courses designated CEMS, CHEM, ENGR, MATH, MECH, PHYS, or RNEW. Exceptions include CHEM 343, MATH 331, and 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.