<table>
<thead>
<tr>
<th>SEM 1 15 HRS</th>
<th>ENGR 10 (0) Freshman Seminar</th>
<th>MATH 106 (5) Calculus I</th>
<th>CHEM 109 (4) General Chemistry I</th>
<th>ENGR 100 (3) Interpersonal Skills for Eng. Leaders OR: COMM 210, 283, or 286</th>
<th>ACE Elective (3) (5, 6, 7, or 9)</th>
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<tbody>
<tr>
<td>SEM 2 16 HRS</td>
<td>MATH 107 (4) Calculus II Pre: MATH 106</td>
<td>CHEM 110 (4) General Chemistry II</td>
<td>PHYS 211 (4) General Physics I Co: MATH 106</td>
<td>PHYS 221 (1) Physics Lab I Co: PHYS 211</td>
<td>CSCE 155N (3) Comp Sci I: Eng. and Science Focus-MATLAB OR: CSCE 155E</td>
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<tr>
<td>SEM 3 17 HRS</td>
<td>MATH 208 (4) Calculus III Pre: MATH 107</td>
<td>PHYS 212 (4) General Physics II Pre: PHYS 211 Co: MATH 107</td>
<td>MECH 223 (3) Statics Pre: C or better in PHYS 211 &amp; MATH 107</td>
<td>BSEN 206 (3) Engineering Economics Pre: Sophomore Standing</td>
<td>MECH 130 (3) Intro to CAD ENGR 20 (0) Sophomore Seminar</td>
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<tr>
<td>SEM 5 16 HRS</td>
<td>MECH 230 (3) Intro to Mechanical Engineering Design Pre: MECH 130 &amp; MECH 325</td>
<td>MECH 342 (3) Kinematics Pre: MECH 130 &amp; MECH 373</td>
<td>MATH 314 (3) Linear Algebra Pre: C or better in MATH 107</td>
<td>ECEN 211 (3) Electrical Eng I Co: MATH 107 or PHYS 211</td>
<td>ECEN 231 (1) Electrical Eng Lab Co: ECEN 211 JGEN 200 (3) Technical Communication</td>
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<tr>
<td>SEM 7 16 HRS</td>
<td>MECH 420 (3) Heat Transfer Pre: MECH 310</td>
<td>MECH 370 (3) Manufacturing Pre: MATL 360, MECH 325</td>
<td>MECH 446 (2) Design I Pre: MECH 200, 310, 350, and program admission</td>
<td>MECH 488 (2) Kinematics / Mechanics Lab Pre: MECH 342 Co: MECH 380</td>
<td>MECH Technical Elective (3) ACE Elective (3) (5, 6, 7, or 9)</td>
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<tr>
<td>SEM 8 17 HRS</td>
<td>MECH 447 (2) Design II Pre: MECH 446 and program admission</td>
<td>MECH 487 (2) Thermal Fluids Pre: MECH 380 and MECH 200 Co: MECH 420</td>
<td>ENGR 400 (1) Professional Ethics Pre: Sr. standing &amp; program admission</td>
<td>MECH Design Elective (3) Senior Elective (3) ACE Elective (3) (5, 6, 7, or 9)</td>
<td>ACE Elective (3) (5, 6, 7, or 9)</td>
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MECHANICAL ENGINEERING

COLLEGE REQUIREMENTS

- Students may repeat a maximum of three engineering courses
- Students may take any one engineering course a maximum of two times
- Pass/No Pass is only an option for up to 12 credits of ACE courses in the humanities and social sciences. Pass/No Pass is not an option for other required courses or technical electives
- Students can be reviewed for professional admission twice within one department. If they do not receive professional admission after the second review, they can change their major. If they stay in the College of Engineering they must meet the professional admission criteria of their new major after one review or they must change their major outside of the college.
- Must fulfill the requirements of the catalog year of admission, can change to a subsequent catalog year in consultation with an advisor
- 30 of the last 36 degree hours must be registered for and completed at UNL or UNO
- College probation
  - Students with a cumulative GPA of less than 2.4 will be placed on college probation
  - Students move back to good academic standing when their cumulative GPA is 2.4 or higher
  - Students will be dismissed from the College of Engineering after two sequential semesters on college probation
  - Students cannot graduate from the College of Engineering while on college probation

DEPARTMENT REQUIREMENTS

- PHYS 222 General Physics Lab II (1 cr) may substitute for PHYS 221 General Physics Lab I
- Choose one ACE elective from each of the four ACE Student Learning Outcomes (SLO) 5, 6, 7, or 9.
- ENGR 200 is recommended for ACE 6 or ACE 9 credit.
- The capstone design sequence must be taken in the order shown in the curriculum and should be taken in the last two semesters of the program (MECH 446 and 447).
- Design and technical electives must be chosen from a list of approved 400-level mechanical engineering elective courses provided by the department every semester.
- Senior electives may be either another mechanical engineering technical or design elective, or, with prior approval from your advisor, a 300-level or higher engineering, science, or math course.
- MECH 343 Prerequisites:
  - MECH 325 & 342, BSEN 206, JGEN 200 or 300, MATL 360, and MECH 321 or STAT 380 or parallel (i.e. “co”)
- MECH 300 Prerequisites:
  - MECH 200 and CSCE 155N
- Professional admission – mechanical engineering students will be reviewed for professional admission upon completion of MECH 223 and 43 credit hours (and 12 UNL credit hours for transfer students). To be granted professional admission, a student must:
  - Earn a major GPA of 2.7 or higher at time of review
  - Have no more than 4 withdraws on their record
  - Have no more than 3 repeated courses
  - One must earn professional admission after two reviews or change their major. The second review will occur in the subsequent semester of first review.

Complete departmental and college policies found at https://catalog.unl.edu