Mechanical Engineering, B.S.

DEPARTMENT

MS in Engineering - Mechanical Engineering Option, M.S.
BS in Mechanical Engineering, B.S.

REQUIREMENTS

Department of Mechanical Engineering

Bachelor of Science Degree Requirements - Mechanical Engineering Major

1. Major requirements (66 units) and additional requirements (21 units)

Major requirements (66 units)
- ME 1, ME 2, ME 26, ME 31, ME 32, ME 95, ME 112, ME 115, ME 116, ME 118, ME 125, ME 135, ME 136, ME 140, ME 145, ME 154, ME 156 (40 units)
- CE 20, CE 121 (6 units)
- ECE 71 or CSCI 40, ECE 91, ECE 91L (7 units)

Design Applications (7 units)
- ME 155, ME 159, ME 166

Technical Area Courses (6 units)
Take a minimum of 3 units in Group A (ME 122, ME 137, ME 142, ME 144, ME 146, ME 162, or ME 164)
A maximum of 3 units in Group B (ME 180, ME 190, ME 191T; ECE 121, ECE 121L, ECE 155) may be substituted for a course in Group A with faculty advisor's approval.

Additional requirements (21 units)
- MATH 76, MATH 77, MATH 81 (see Advising Note 7), PHYS 4A, PHYS 4AL, PHYS 4B, PHYS 4C

2. General Education requirements (48 units)**
- COMM 3, 7, or 8 (GE Area A1); ENGL 10 (GE Area A2); HIST 11 or 12 (GE Area D1); select one course from each of the following GE Areas: B2, D2 and F. For C1 requirement, no additional course is necessary because the following ME major courses are double counted to satisfy this (ME 26 and ME 95). Engineering majors are exempt from G.E. areas A3, E, ID, and the third course in Area C

The following courses are required to satisfy both G.E. and major requirements:
- CHEM 1A/1AL (GE Area B1)
- MATH 75 (GE Area B4)
- PHIL 20 (GE Area C2)
- ME 134 (GE Area IB)
- For PHIL 120 (GE Area IC)

3. Other requirements (9 units)
- American Government and Institutions (PLSI 2), Multicultural and International (MI), and Upper-division writing. Note: Mechanical Engineering majors are exempt from the MI requirement.

4. Sufficient elective units to meet required total units (if needed) (See Degree Requirements.)

5. Total (123 units)

Advising Notes

1. All LCOE students can enroll in ME 112 and ME 136 without permission numbers if they have fulfilled the prerequisite requirements. For all other upper-division ME courses, non-ME majors must have permission numbers approved by the ME department chair.
2. Courses in mathematics, the physical sciences, or engineering taken CR/NC are not counted toward fulfillment of degree requirements in mechanical engineering.
3. Mechanical engineering majors might consider a math, physics, or business minor.

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4. Since the mechanical engineering major curriculum is very demanding, many students, especially those not fully prepared in mathematics, chemistry, and/or physics, take 4 1/2 or more years to graduate rather than the traditional 4 years.

5. Advising is mandatory in the Lyles College of Engineering. A registration hold will be placed on students who fail to see their advisor at least once per academic year.

6. The Upper-Division Writing Skills requirement has to be completed no sooner than the term in which 60 units of coursework are completed or no later than the term in which 90 units are completed. This requirement can be met by taking ENGR 105WE or a department-approved writing course passed with a letter grade of C or better in the junior year.

7. With faculty advisor approval, ENGR 101 may be taken instead of MATH 81.

8. All courses in Math, Science, and Engineering used in the BSME curriculum must be passed with a C or better grade.

**FACULTY**

For faculty phone numbers and e-mail, see the campus directory.

For more on the faculty, see the faculty pages.
The faculty pages are updated by the department or program.