



COLLEGE OF ENGINEERING, ARCHITECTURE & TECHNOLOGY
OKLAHOMA STATE UNIVERSITY

Requirements for Students **Matriculating in or before Academic Year 2017-2018**

BACHELOR of SCIENCE in MECHANICAL ENGINEERING

MAJOR: Mechanical Engineering

OPTION: Pre-Medical

Minimum Overall Grade Point Average: 2.50
(cumulative graduation/retention GPA)

Total Hours: 138

Other GPA requirements, see below.

| GENERAL EDUCATION REQUIREMENTS: 43 HOURS | | | MAJOR REQUIREMENTS: 57 HOURS | | |
|--|-------|--|---|--|---|
| Area | Hours | To be selected from: | | | |
| English Composition | 6 | <u>ENGL 1113 or 1313, 1213 or 1413</u> (3323 may be substituted for 1213) (See Academic Regulation 3.5 in Catalog) | Engineering Science | ENSC 3233, 3313 | |
| American History & Government | 6 | HIST 1103 (or 1483 or 1493), POLS 1113 | Specific Professional School | MAE 3013 MAE 3223 MAE 3323 MAE 3723 CHEM 3153 MICR 3033 | MAE 3113 MAE 3233 MAE 3403 CHEM 3112 IEM 3503 |
| Analytical & Quantitative Thought (A) | 10 | <u>MATH 2144, 2153, 2163</u> | 13 hours from the following 4 categories, selecting one course from each category so that all 4 categories are represented: | | |
| Humanities (H) | 6 | 3 hours designated (H) from PHIL*. 3 hours designated (H) for ENGL. | Category I (Thermal Systems Realization) MAE 4243, 4263, 4703, 4713 | | |
| Natural Sciences (N) Must include one Laboratory Science (L) course. | 9 | <u>CHEM 1515, BIOL 1114</u> | Category II (Mechanical Systems Realization) MAE 4353, 4363, 4513, 4623 | | |
| Social & Behavioral Sciences (S) | 6 | 6 hours designated (S) from PSYC* or SOC*. | Category III (Laboratory) MAE 4273, 4333, 4733 | | |
| DIVERSITY (D) & INTERNATIONAL DIMENSION (I) May be completed in any part of the degree plan. At least one Diversity (D) course At least one International Dimension (I) course | | | Category IV (Capstone Design) MAE 4344, 4354 | | |
| COLLEGE/DEPARTMENTAL REQUIREMENTS: 38 HOURS | | | 6 hours to be selected from the following list, or from courses in the 4 categories listed above, but not used to satisfy the category requirement. MAE 3033, 3123, 3253, 3293, 4053, 4063, 4313 | | |
| Math and Basic Science | 18 | <u>MATH 2233, PHYS 2014, 2114</u> , CHEM 3053, BIOL 1604 | The following are suggested, but not required: BIOC 3653, BIOL 3023, 3204, 4134. CHEM 1314 is recommended with CHEM 1515 to meet the Oklahoma medical schools' requirement for 9 hours of inorganic chemistry. | | |
| Engineering | 5 | <u>ENGR 1111, 1332, 1412</u> | *PSYC 1113 is recommended to satisfy (3) hours of (S) requirement. PHIL 3833 is recommended to satisfy (3) hours of (H) requirement. The entrance requirements of medical schools of choice should be reviewed to ensure an application is competitive. | | |
| Engineering Science | 15 | <u>ENSC 2113, 2123, 2143, 2213, 2613</u> | | | |

Admission to Professional School (required):

Refer to the OSU Catalog corresponding to your matriculation date for detailed admissions requirements.

Graduation Requirements:

1. A minimum GPA of 2.50 is required all MAE prefix courses.
2. A minimum overall GPA of 2.50 is required in 4000-level MAE prefix courses.
3. A 'C' or better is required in each course that is a prerequisite for a major course taken.
4. The major engineering design experience, capstone course, is satisfied by MAE 4344 or MAE 4354.

Note 1: All General Education coursework requirements are satisfied upon completion of this degree plan.

Note 2: Asterisks denote medical school requirements.

Additional State/OSU Requirements – At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU. Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.

Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation. Degrees that follow this plan must be completed by the end of Summer 2023.

Signature on file in the Office of the Registrar

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DEAN

DEPARTMENT HEAD