



COLLEGE OF ENGINEERING, ARCHITECTURE & TECHNOLOGY

OKLAHOMA STATE UNIVERSITY

General Requirements for Students Matriculating in Academic Year 2012-2013

BACHELOR of SCIENCE in MECHANICAL ENGINEERING

MAJOR: Mechanical Engineering

OPTION: Biomedical Engineering

Minimum Overall Grade Point Average: 2.00

Total Hours: 132

(Cumulative Graduation/Retention GPA), other GPA requirements see below.

| GENERAL COURSES: 29 HOURS | | | MAJOR REQUIREMENTS/PROFESSIONAL SCHOOL | | |
|--|-------|--|---|-------|--|
| <i>Shaded courses identify courses that must be completed prior to admission to professional school.</i> | | | COMMON PROFESSIONAL SCHOOL: 15 HOURS | | |
| Area | Hours | To be selected from: | Area | Hours | To be selected from: |
| English Composition & Oral Communication | 3 | ENGL 1113 or 1313 | Engineering Science | 3 | ENSC 3313 |
| American History & Government | 6 | HIST 1103; POLS 1113 | English Composition & Oral Communication | 3 | ENGL 1213 or 1413 (3323 may be substituted for 1213, subject to Academic Regulation 3.5) |
| Analytical & Quantitative Thought (A) | 13 | MATH 2144, 2153, 2163, 2233 | Social & Behavioral Sciences (S) | 6 | Any course designated (S). Consult the college & departmental requirements. |
| Humanities (H) | 3 | Courses designated (H). | Humanities (H) | 3 | Courses designated (H). |
| Natural Sciences (N) | 4 | CHEM 1414 or 1515 | SPECIFIC PROFESSIONAL SCHOOL: 53 HOURS Admitted to Professional School of Mechanical and Aerospace Engineering. | | |
| Diversity (D) | -- | Any course designated (D). Students are encouraged to meet the requirement in their selection of (H) or (S) course work. | 37 credit hours as follows: MAE 3013, 3033, 3113, 3223, 3233, 3323, 3403, 3723, 4623, CHE 4293, IEM 3503, ZOO 3204 | | |
| International Dimension (I) | -- | Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work. | 13 credit hours from the following 4 categories, selecting one course from each category so that all 4 categories are represented. <u>Category I</u> (Thermal Systems Realization) MAE 4243, 4263, 4703, 4713 | | |
| Scientific Investigation (L) | -- | Any course designated (L). Normally met by Natural Sciences and/or Basic Science requirements. | <u>Category II</u> (Mechanical Systems Realization) MAE 4353, 4363, 4513 | | |
| COLLEGE/DEPARTMENTAL REQUIREMENTS: 35 HOURS | | | <u>Category III</u> (Laboratory) MAE 4273, 4333, 4733 | | |
| Basic Science | 12 | PHYS 2014, 2114 BIOL 1114 | <u>Category IV</u> (Capstone Design) MAE 4344, 4354 | | |
| Engineering | 5 | ENGR 1111, 1332, 1412 | 3 credit 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. | | |
| Engineering Science | 18 | ENSC 2113, 2123, 2143, 2213, 2613, 3233 | MAE 3123, 3253, 3293, 4053, 4063, 4313 | | |

Admission to Professional School (required):

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

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

Graduation Requirements:

1. A minimum GPA of 2.00 is required in Professional School coursework (right hand column above).
2. A minimum overall GPA of 2.00 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.
4. The major engineering design experience, capstone course, is satisfied by MAE 4344 or MAE 4354.
5. Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as the changes do not delay graduation or result in semester hours being added.
6. Students will be held responsible for satisfying University Academic Regulations 1.1-7.11, as applicable.

Signature on file in the Office of the Registrar

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Dean

Department Head