COLLEGE OF ENGINEERING, ARCHITECTURE & TECHNOLOGY

OKLAHOMA STATE UNIVERSITY

General Requirements for Students Matriculating in Academic Year 2011-2012

BACHELOR of SCIENCE in MECHANICAL ENGINEERING

MAJOR: Mechanical Engineering **OPTION: Pre-medical**

Minimum Overall Grade Point Average: 2.00 **Total Hours: 141**

(cumulative graduation/retention GPA)

Other GPA requirements see below.

GENERAL EDUCATION REQUIREMENTS: 36 HOURS

Area	Hours	To be selected from:
Underlined courses below are Pre-Engineering requirements used simultaneously to meet General Education requirements.		
English Composition & Oral Communication	6	ENGL 1113 or 1313, 1213 or 1413. 3323 may be substituted for 1213 subject to Academic Regulation 3.5.
American History & Government	6	HIST 1103; POLS 1113
Analytical & Quantitative Thought (A)	13	MATH 2144, 2153, 2163, 2233
Humanities (H)	6	Courses designated (H) at OSU.
Natural Sciences (N)	5	CHEM 1515
Social & Behavioral Sciences (S)	--	Any course designated (S) at OSU. Consult the college & departmental requirements.
Diversity (D)	--	Any course designated (D). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.
International Dimension (I)	--	Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.
Scientific Investigation (L)	--	Any course designated (L). Normally met by Natural Sciences and/or Basic Science requirements.

COLLEGE/DEPARTMENTAL REQUIREMENTS
PRE-ENGINEERING: 28 HOURS

Basic Science	8	PHYS 2014, 2114
Engineering	5	ENGR 1111, 1332, 1412
Engineering Science	15	ENSC 2113, 2123, 2143, 2213, 2613

MAJOR REQUIREMENTS: 77 HOURS

COMMON PROFESSIONAL SCHOOL: 15 HOURS

Engineering	6	ENSC 3233, 3313
Basic Science	3	CHEM 3053
Social & Behavioral Sciences (S)	6	3 hours designated (S) from PSYC* or SOC*. 3 hours courses designated (S) at OSU.

*Asterisks denote medical school entrance requirements.

SPECIFIC PROFESSIONAL SCHOOL REQUIREMENTS: 62 HOURS

Admitted to the Professional School of Mechanical and Aerospace Engineering.
(See Professional School admission requirements in the *Catalog*.)

1. A total of 43 credit hours as follows:
   MAE 3013, 3033, 3113, 3223, 3233, 3323, 3403, 3723, BIOL 1114;
   CHEM 3112, 3153; IEM 3503; ZOOL 1604, MICR 3033
2. A total of 13 hours from the following 4 categories, selecting one course from each category so that all 4 categories are represented.
   Category I (Thermal Systems Realization)
   MAE 4243, 4263, 4703, 4713
   Category II (Mechanical Systems Realization)
   MAE 4353, 4363, 4513
   Category III (Laboratory)
   MAE 4273, 4333, 4733
   Category IV (Capstone Design)
   MAE 4344, 4354
3. A total of 6 hours to be selected from the following list, or from courses in the 4 categories listed above, but not used to satisfy that category.
   MAE 3123, 3253, 3293, 4053, 4063, 4313, 4623
4. The following are suggested, but not required: BIOC 3653, BIOL 3024, CLML 3014, ZOOL 3114, ZOOL 3204, ZOOL 4215, CHEM 1314 is recommended with CHEM 1515 to meet the Oklahoma medical schools' requirement for 9 hours of inorganic chemistry. The entrance requirements of medical schools of choice should be reviewed to ensure an application is competitive.

Other Requirements:

Admission to professional school is required. Please refer to the OSU Catalog corresponding to your matriculation date for detailed admission requirements.
A student must complete course work at OSU satisfying academic regulation 7.2. A student must complete at least 60 credit hours at a senior college.
A GPA of 2.00 is required in all course work listed in the right hand column above.
The major engineering design experience, capstone course, requirement is satisfied by MAE 4344 or MAE 4354.
A minimum overall 2.00 GPA is required in 4000-level MAE prefix courses. A "C" or better is required in each course that is a prerequisite for a major course.

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.

Signature on file in the Office of the Registrar

DEAN

Signature on file in the Office of the Registrar

DEPARTMENT HEAD