



# 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: Pre-Medical**

**Minimum Overall Grade Point Average: 2.00**

**Total Hours: 141**

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

<b>GENERAL COURSES: 27 HOURS</b>			<b>MAJOR REQUIREMENTS/PROFESSIONAL SCHOOL</b>		
<i>Shaded courses identify courses that must be completed prior to admission to professional school.</i>			<b>COMMON PROFESSIONAL SCHOOL: 15 HOURS</b>		
Area	Hours	To be selected from:	Area	Hours	To be selected from:
English Composition & Oral Communication	3	ENGL 1113 or 1313	English Composition & Oral Communication	3	ENGL 1213 or 1413 (3323 may be substituted for 1213, subject to Academic Regulation 3.5)
American History & Government	6	HIST 1103, POLS 1113	Social & Behavioral Sciences (S)	6	3 hours designated (S) from PSYC* or SOC*. 3 hours designated (S).
Analytical & Quantitative Thought (A)	13	MATH 2144, 2153, 2163, 2233	Humanities (H)	6	Any courses designated (H).
Natural Sciences (N)	5	CHEM 1414 or 1515	<b>SPECIFIC PROFESSIONAL SCHOOL: 54 HOURS</b> 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.	35 credit hours as follows: MAE 3013, 3033, 3113, 3223, 3233, 3323, 3403, 3723, CHEM 3112, 3153, IEM 3503, MICR 3033		
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.		
Scientific Investigation (L)	--	Any course designated (L). Normally met by Natural Sciences and/or Basic Science requirements.	<u>Category I</u> (Thermal Systems Realization) MAE 4243, 4263, 4703, 4713 <u>Category II</u> (Mechanical Systems Realization) MAE 4353, 4363, 4513 <u>Category III</u> (Laboratory) MAE 4273, 4333, 4733 <u>Category IV</u> (Capstone Design) MAE 4344, 4354		
<b>COLLEGE/DEPARTMENTAL REQUIREMENTS: 45 HOURS</b>					
Basic Science	19	BIOL 1114, PHYS 2014, 2114, CHEM 3053, ZOO 1604	6 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. MAE 3123, 3253, 3293, 4053, 4063, 4313, 4623		
Engineering	5	ENGR 1111, 1332, 1412	The following are suggested, but not required: BIOC 3653, BIOL 3024, CLML 3014, ZOO 3114, 3204, 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.		
Engineering Science	21	ENSC 2113, 2123, 2143, 2213, 2613, 3233, 3313			

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 2.00 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.

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

Note 2: Asterisks denote medical school requirements.

Signature on file in the Office of the Registrar

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Dean

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Department Head