



**Option: Pre-Medical**

**Total Hours: 138**

Requirements for Students Matriculation in or before Academic Year 2014-2015

<b>GENERAL COURSES: 30 hours</b>			<b>MAJOR REQUIREMENTS/PROFESSIONAL SCHOOL</b>		
<u>Underlined</u> courses identify courses that must be completed prior to admission to professional school			<b>COMMON PROFESSIONAL SCHOOL: 12 HOURS</b>		
AREA	HOURS	TO BE SELECTED FROM	AREA	HOURS	TO BE SELECTED FROM
English Composition & Oral Communication	6	<u>ENGL 1113 or 1313; ENGL 1213 or 1413</u> (3323 may be substituted for 1213, subject to	Social & Behavioral Sciences (S)	6	3 hours designated (S) from PSYC* or SOC*. 3 hours designated (S) from PSYC* or SOC*
American History & Government	6	HIST 1103, POLS 1113	Humanities (H)	6	3 hours designated (H) from PHIL*. 3 hours designated (H) for ENGL.
Analytical & Quantitative Thought (A)	13	<u>MATH 2144, 2153, 2163, 2233</u>	<b>SPECIFIC PROFESSIONAL SCHOOL: 51 HOURS</b>		
Natural Sciences (N)	5	<u>CHEM 1414 or 1515</u>	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.	32 credit hours as follows: MAE 3013, 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.	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		
<b>COLLEGE/DEPARTMENTAL REQUIREMENTS: 45 HOURS</b>			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 3033, 3123, 3253, 3293, 4053, 4063, 4313		
Basic Science	19	<u>BIOL 1114, PHYS 2014, 2114, CHEM 3053, ZOO 1604</u>	The following are suggested, but not required: BIOC 3653, BIOL 3023, ZOO 3204, 4134. 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	5	<u>ENGR 1111, 1332, 1412</u>	<u>Note 1:</u> All General Education coursework requirements are satisfied upon completion of this degree plan.		
Engineering Science	21	<u>ENSC 2113, 2123, 2143, 2213, 2613, 3233, 3313</u>	<u>Note 2:</u> Asterisks denote medical school requirements.		

**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.

**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 2020.

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Department Head