



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

**Total Hours: 121**

<b>GENERAL COURSES: 29 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: 15 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	Engineering Science	3	ENSC 3313
American History & Government	6	HIST 1103, POLS 1113	Social & Behavioral Sciences (S)	6	Any courses designated (S)
Analytical & Quantitative Thought (A)	13	<u>MATH 2144, 2153, 2163, 2233</u>	Humanities (H)	6	Any courses designated (H).
Natural Sciences (N)	4	<u>CHEM 1414 or 1515</u>	<b>SPECIFIC PROFESSIONAL SCHOOL: 43 HOURS</b>		
Diversity (D)	--	Any course designated (D). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	Admitted to Professional School of Mechanical and Aerospace Engineering.		
International Dimension (I)	--	Any course designated (I). Students are encouraged to meet the requirement in their selection of (H) or (S) course work.	24 credit hours as follows: MAE 3013, 3113, 3223, 3233, 3323, 3403, 3723, IEM 3503		
Scientific Investigation (L)	--	Any course designated (L). Normally met by Natural Sciences and/or Basic Science requirements.	13 credit hours from the following 4 categories, selecting one course from each category so that all 4 categories are represented.		
<b>COLLEGE/DEPARTMENTAL REQUIREMENTS: 34 HOURS</b>			<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		
Basic Science	11	<u>PHYS 2014, 2114</u> and select from: ASTR 1014, 1024, BIOL 1114, CHEM 3053, GEOL 1114, 3413, PHYS 3213, 3313, 3713	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, 4623		
Engineering	5	<u>ENGR 1111, 1332, 1412</u>	<u>Note:</u> All General Education coursework requirements are satisfied upon completion of this degree plan.		
Engineering Science	18	<u>ENSC 2113, 2123, 2143, 2213, 2613, 3233</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 2.00 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