Suggested Curriculum

This should be used as a **guide** only. Semester offerings and pre-requisites are subject to change.

Autumn	Spring
ENGR 1100.01 (Engineering Survey) 1 hr MATH 1151 (Calculus 1) 5 hr Pre-req: Math Placement Level L, or C- or above in 1148 and 1149, or in 1144, 1150 PHYSICS 1250 (Mechanics, Thermal, Waves) 5 hr Prereq or concur: Math 1141, 1151, 1156, 1161, 1181H, or 4181H ENGR 1181 (Fundamentals of Engr 1) 2 hr Prereq or concur: Math 1140 or 1141; or Math 1150 or above General Education 3 hr	MATH 1172 (Engineering Math A)
MATH 2173 (Engineering Math B) 3 hr Prereq: 1172 or 1544 CHEM 1250 (Gen Chem for Engineers) \ 4 hr Prereq: One unit of high school chemistry, and Math Placement Level L or M; or a grade of C- or above in Math 1130, 1131, 1148, or 1150, or above AEROENG 2200 (Intro to AAE 1)	MATH 2174 (Lin Alg & Diff Eq) 3 hr
AEROENG 3521* (Flight Vehicle Control) 3 hr	AEROENG 3522* (Fundamental Astronautics) 3 hr
AEROENG 4510* (Experimental Projects 1)	AEROENG 4511* (Experimental Projects 2) 3 hr Prereq: 4510 AEROENG 4516* (Dsgn of Atmos Flt Veh) 3 hr Prereq: 4515 Or AEROENG 4518* (Dsgn Space Veh and Sys 2) 3 hr Prereq: 4517 Technical Elective 3 hr Technical Elective 3 hr General Education 3 hr

Total Hours to complete the degree program = 128

†CSE 1222 (3 credit hours) can substitute for ENGR/CSE 1221.

Courses in **bold face** are only offered during the listed term.

All students must satisfy a 32 credit hour minimum for math and basic sciences. Students with high math or science placements and transfer students without credit for lower courses should consult with the MAE Undergraduate Academic Advisors to ensure this minimum is met. Such students may be required to take extra coursework to meet graduation requirements.

Passing Criteria

A passing grade in a course is defined as a D or better. By earning a D or better, you are earning credit for the course. Some courses may require a C- or better in a pre-requisite course. Some majors/minors require that you earn a C- or better in courses to remain in good standing in the program. Aerospace Engineering requires that students earn a C- or better in MECHENG 2040 and AEROENG 2200 to be in good standing in the major, but all other major courses would be complete with an earned D grade. Please note that must have a 2.0 or better Major GPA (MPHR) to graduate with a B.S. Aerospace Engineering.

Acceptance Criteria

Please review admission/acceptance criteria on the College of Engineering website: https://advising.engineering.osu.edu/current-students/applying-your-major

Technical and Other Electives

Please contact an MAE Undergraduate Academic Advisor for information about Technical Elective options.

0/3 hr

General Education Requirement

General Education Requirement	
Writing and Communication	
English 1110.xx	3 hr
Second Writing Course	3 hr
Social Science	
Must choose each course from a distinct subgroup of this	category.
	3 hr
	3 hr
Literature	
	3 hr
Visual and Performing Arts	
	3 hr
Historical Study	
	3 hr
Second Historical Study or Cultures and Ide	eas
	3 hr
Social Diversity in the U.S. or Global Divers	sity
Some courses may overlap with another GE category, Se	•
	0 / 3 hr
Ethics	
Some courses may overlap with another GE category, Se	e course list
some com ses may over up with another of curegory, se	c combe usi.

Optional: Foreign Language

Foreign Language 1103 Course: credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be used to satisfy the Cultures & Ideas Gen Ed category.

Foreign Language Minor Courses: completion of a foreign language minor permits a student to overlap up to 6 credit hours between the Gen Ed and minor. A curricular petition must be submitted to the student's program, which will forward it to the college for review. The courses must meet the spirit of the Gen Ed category for which overlap is requested.

Optional: University Capstone

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any subgroup. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course.

See the list of approved general education courses for additional details: www.advising.engineering.osu.edu.

^{*}These required courses can only be taken after admission to the Aerospace Engineering major program.

[^] CHEM 1210 (5 hours) can substitute for CHEM 1250.