



COLLEGE OF
**ENGINEERING, ARCHITECTURE
AND TECHNOLOGY**

AERO AEROSPACE ENGINEERING



WHAT IS AEROSPACE ENGINEERING?

Aerospace Engineering is the study of the science and technology of flight, and the design of air, land and sea vehicles for transportation and exploration.

WHY AEROSPACE ENGINEERING AT OSU?

The mission of Aerospace Engineering is to create a vibrant and stimulating learning and research environment and to instruct and encourage our students to reach their full potential in technical expertise, innovative expression, intellectual curiosity, and collaborative design.

HIGHLIGHTS

- Features a dual-degree option with Mechanical Engineering, with the possibility to graduate in 4 years with two accredited degrees.
- Newly started High Power Rocketry Team.
- MAE seniors can compete in Speedfest, an undergraduate aircraft design competition and exposition - the only undergraduate aircraft design competition in the country to feature turbojet engines.
- Team-centric course structure and design projects.
- Senior design project options in aircraft design, aircraft structures, rocketry design, aircraft propulsion, and space habitat design.
- Engineering students have the chance to do research and work alongside professors on projects in the aerospace industry.

CAREER INDUSTRIES & FOCUS AREAS

OPTIONS

Dual degree option for mechanical and aerospace engineering.

CAREER OPPORTUNITIES

- Drilling Engineer
- RDD Engineer
- Facilities Engineer
- Design Engineer
- Mechanical Engineer
- Liaison Engineer
- Associate Technical Professional
- Project Engineer



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Typical Four-Year Curriculum

FIRST YEAR**Fall Semester**

ENGR	1332	AutoCad
CHEM	1414	Chem for Engr
ENGR	1111	Intro to Engr
MATH	2144	Calc I
ENGL	1113	Comp I
XXXX	XXXX	"S"/"D"/"I"/"H" Elective

Spring Semester

ENGR	1412	Intro to Comp Progm
PHYS	2014	Physics I
MATH	2153	Calc II
ENGL	1213	Comp II
HIST	1103	Survey of Am Hist

SECOND YEAR**Fall Semester**

ENSC	2113	Statics
PHYS	2114	Physics II
ENSC	2213	Thermo
MATH	2163	Calc III
MATH	2233	Diff Eq

Spring Semester

ENSC	2123	Dynamics
ENSC	2143	Strengths of Mats
ENSC	3233	Fluids
ENSC	2613	Intro to Electrical Science
POLS	1113	Am Govt
XXXX	XXXX	"S"/"D"/"I"/"H" Elective

THIRD YEAR**Fall Semester**

ENSC	3313	Material Science
IEM	3503	Engr Economic Analysis
MAE	3323	Mechanical Design I
MAE	3293	Fundamentals of Aero
MAE	3013	Engr Analysis & Methods I

Spring Semester

MAE	3113	Measurements & Instrumentation
MAE	3403	Comp Methods Analysis & Design
MAE	3253	Applied Aerodyms & Performance
MAE	3723	Systems Analysis
XXXX	XXXX	Basic Science Elective

FOURTH YEAR**Fall Semester**

MAE	4513	Aerospace Structures I
MAE	4243	Aerospace Propulsion & Power
MAE	4283	Aero Vehicle Stability & Control
MAE	XXXX	Controlled Elective
XXXX	XXXX	"S"/"D"/"I"/"H" Elective

Spring Semester

MAE	4374	Aerospace System Design
MAE	4223	Aerospace Engineering Laboratory
MAE	XXXX	Controlled Elective
XXXX	XXXX	"S"/"D"/"I"/"H" Elective

TOTAL HOURS: 123

Accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.



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This course plan is for general guidance only. An official course plan will be provided upon enrollment.

Contact | ceat.recruitment@okstate.edu | (405)-744-5279