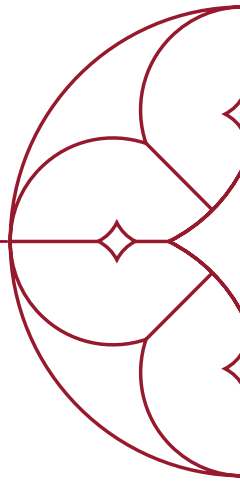




SCHOOL OF AEROSPACE AND MECHANICAL ENGINEERING



Whether students are interested in the broad field of mechanical engineering or the specialized area of aerospace engineering, the School of Aerospace and Mechanical Engineering equips them to address contemporary challenges in various environments. Our undergraduates benefit from an outstanding educational experience, characterized by innovative teaching from our faculty and hands-on projects in our dedicated laboratories. Additionally, students engage in various competition teams and research which helps in fostering the development of both engineering and interpersonal skills, as well as forming lifelong bonds.

BY THE NUMBERS

800+

Undergraduate Students in AME

31

Full-Time Faculty in AME

\$76,000

Average Starting Salary for
OU AME Graduates

MAJORS

Aerospace Engineering

Mechanical Engineering

Mechanical Engineering: Pre-Med

Accelerated (5-year) Dual Degree Programs

B.S./M.S. Aerospace Engineering

B.S./M.S. Mechanical Engineering



The OU Design/Build/Fly (DBF) team with their meticulously crafted aircraft; the team placed 22nd in the 29th Annual Design/Build/Fly AIAA competition

“The School of Aerospace and Mechanical Engineering not only provides an excellent education but also fosters a strong sense of community. The professors and staff are highly approachable, and their dedication to students' success is evident. Additionally, the student body has created a close-knit, family-like environment.”

— Brooke Rogachuk, Aerospace Engineering
Class of 2026, Goldwater and Astronaut Scholar

CONTACT US

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Terms to Know

Major—Primary area of study
Minor—Complimentary area of specialization

B.S.—Bachelor of Science
M.S.—Master of Science

M.B.A.—Master of Business Administration
M.E.S.—Master of Environmental Science



THINGS TO KNOW

1 Mechanical Engineering is one of the broadest fields in engineering; most branches of industry employ mechanical engineers. The profession has flexibility to adapt to whatever an individual is interested in. Aerospace engineers are responsible for the design, development, testing, and production of aircraft (ranging from general aviation to high-performance military aircraft and from commercial airliners to drones) and spacecraft.

2 Undergraduate students engage in experiential and hands-on learning throughout the curriculum. Students develop skills in computer-aided design, experimental data collection, computer programming, finite element analysis, project management, and a variety of other communications and analysis methods. This includes a semester-long industry or community-sponsored capstone project that ties together analysis, design, manufacturing and testing skills for senior students. Capstone industry partners have included Boeing, Tinker Air Force Base, the Federal Aviation Administration, Textron Aviation, Hitachi, the United States Postal Service, and Schlumberger.

3 Undergraduate students work on research with faculty for course credit. Research topics include robotics, combustion, 3D printing, composites, computational fluid dynamics, HVAC systems, sustainable energy and biomechanics.



The OU Aerospace Propulsion Outreach Program (APOP) team presented their poster at the annual competition held at the Air Force Research Laboratory; the team placed eighth.

SELECT COURSES

Materials, Design and Manufacturing Processes

Aerodynamics/Aerospace

Systems Design

Fluid Mechanics/Design Practicum

Computer Integrated Manufacturing

Space Sciences and Astrodynamicss

AME STUDENT ORGANIZATIONS

American Society of Mechanical Engineers (ASME)

American Institute of Aeronautics and Astronautics (AIAA)

+ over 60 engineering student organizations

CAREER PATHS

Northrop Grumman Gilbert, AZ
Control Engineer

Exxon Mobil Midland, TX
Facilities Engineer

Valero Corpus Christi, TX
Equipment Engineer

Continental Resources Oklahoma City, OK
Field Engineer

Boeing Oklahoma City, OK
Structural Design Engineer



Sooner Racing Team (SRT) competing at the 2025 SAE International Formula SAE event in Jackson, Michigan. SRT finished 4th in acceleration.