

Aerospace Engineering

The aerospace engineering program is accredited by the Engineering Accreditation Commission of ABET (<http://www.abet.org>)¹.

To uphold the university and college missions, the aerospace engineering faculty, in consultation with its constituents, established the following program educational objectives:

1. Within a few years after graduation, program alumni are dependable, productive professionals using learned engineering principles to successfully satisfy employer needs in aerospace engineering or related fields in Wichita and the global community.
2. Within a few years after graduation, program alumni, interested in attending graduate school, successfully complete advanced degrees in aerospace engineering or related fields.

Aerospace engineering students participate in an academic program of study in technical areas such as aerodynamics, performance, propulsion, flight mechanics and structures. After developing a background of skills in these technical areas, senior students complete a two course sequence in aerospace design.

The aerospace engineering curriculum also gives students the opportunity to develop a comprehensive foundation in mathematics, physics, general engineering, digital computations, written and oral communication, and humanities and social sciences.

Students have access to an excellent array of laboratory facilities including: an astronautics lab, four wind tunnels, a water tunnel, a flight simulation lab, a structural testing lab, a small-aircraft prototype lab, a propulsion lab and a controls lab. These facilities and those shared with the National Institute of Aviation Research are among the finest found in academic institutions.

The aircraft industries in Wichita include Airbus, Bombardier Aerospace, Spirit AeroSystems, and Textron Aviation (including Beechcraft and Cessna). The presence of these companies has a strong positive influence on WSU's aerospace engineering program.

¹ Link opens new window.

Majors in Aerospace Engineering

- BS in Aerospace Engineering (<http://catalog.wichita.edu/undergraduate/engineering/aerospace-engineering/aerospace-engineering-bs/>)
- Departmental Honors in Aerospace Engineering (<http://catalog.wichita.edu/undergraduate/engineering/aerospace-engineering/departmental-honors-aerospace-engineering/>)

Courses in Aerospace Engineering

- Aerospace Engineering (AE) (<http://catalog.wichita.edu/undergraduate/courses/ae/>)