

Aerospace Engineering

Aerospace engineers are innovative research leaders in the design, construction and analysis of aircraft, satellites, manned-space vehicles and missions, unmanned-aerial vehicles, and the aerodynamic, propulsion, flight control and structural systems of high-tech vehicles.

College of Engineering aerospace engineering students are at the hub of aerospace research. NASA's test facility, White Sands Missile Range and Spaceport America are all nearby. In addition, the large aerospace companies maintain close ties to the program.

Aerospace Studies

Aerospace studies coursework includes basic engineering concepts, communication skills and laboratory procedures, in addition to more specialized studies. As future aerospace engineers, students are given a thorough grounding in aerodynamics, propulsion, flight stability and control, orbital mechanics, the space environment, aerospace structures, thermodynamics, aerospace systems engineering and design. Laboratory time, where students practice hands-on application of theory, is just as important, and through senior capstone design projects, co-ops and internships, they can acquire real-world engineering experience.

Research Highlight

Using biomimetrics, the study of biological systems, NMSU engineers are examining how birds fly and fish swim. The goal is to improve the design of small, autonomous aerial vehicles by developing efficient "flapping" propulsion systems.

DID YOU KNOW?

The College of Engineering at NMSU has New Mexico's only aerospace engineering program.

