College of Aviation

Dr. Alan Stolzer, Dean

The College of Aviation is comprised of the School of Graduate Studies, and the departments of Aeronautical Science, Aviation Maintenance Science, Applied Aviation Sciences, and the Flight Training Department, which is the flight laboratory component for the Aeronautical Science degree. The College of Aviation complex is a suite of modern facilities that include the Aviation building, the Advanced Flight Simulation Center, the Emil Buehler Aviation Maintenance Science Building, Flight Operations, and Fleet Maintenance. Collectively, these facilities house the academic departments, classrooms, teaching and research laboratories, and faculty and staff required to deliver the highest quality aviation programs found in collegiate education.

The Aviation building houses the high altitude normobaric chamber, an airline operations center, a spatial disorientation lab, three air traffic control labs, an extended reality lab, an uncrewed aircraft systems lab, a meteorology lab, a meteorology broadcast studio, and a satellite mission control center lab, among many others. The Advanced Flight Simulation Center houses the most advanced flight training devices and simulators used in aviation education. This includes several FAA-qualified Level 6 devices, an FAA Level D full-flight simulator, and crosswind trainers. The Simulation Center is also home to the Pilot Preflight Immersion Laboratory for Operations Training (PILOT) program, which uses virtual reality technology to familiarize students with aircraft operations and fundamental flight maneuvers.

The Emil Buehler Aviation Maintenance Science Building houses all the classrooms and labs necessary to deliver training and education for the FAA Airframe and Powerplant technician certificates. Laboratories in the building are homes to turbine engines, piston engines, propellers, aircraft structures and composites, welding, electrical and avionics, and many others. The Flight Department operates a fleet of approximately 100 Cessna 172 and Diamond DA 42 aircraft. The entire fleet is equipped with all glass flight decks using the Garmin G1000 avionics suite and includes the ADS-B onboard collision avoidance system.

The College of Aviation delivers 14 degree programs in seven disciplines (aeronautical science (professional pilot), aviation maintenance science, uncrewed systems, meteorology, air traffic management, safety, and space operations) and has an enrollment of more than 3,000 students. The Aeronautical Science program is the largest residential program of its kind in the nation. The College's degree programs range from an associate degree to the Ph.D., and alums from these programs are found throughout the aviation and aerospace industry at the highest levels.

The College is home to four graduate degree programs. The mission of the nation's first Ph.D. in Aviation program is to produce outstanding scholars for careers in research and teaching in the aviation field. The Master of Science in Aviation, the Master of Science in Occupational Safety Management, the Master of Science in Uncrewed Systems, and the Master of Science in Space Operations prepare students to become technically proficient professionals who possess the skills and background needed to manage complex projects in the aviation, safety, uncrewed, and commercial space sectors.

The College of Aviation has a robust research portfolio across all disciplines. Faculty utilize the college's laboratories and equipment to research all elements of the air transportation system, including dynamic modeling of air traffic control interfaces, airline operations, meteorology, uncrewed systems, commercial space, and safety science.

Degrees

Associates

A.S. in Aviation Maintenance Science

Bachelors

B.S. in Aeronautical Science
B.S. in Aeronautics
B.S. in Aerospace and Occupational Safety
B.S. in Air Traffic Management
B.S. in Aviation Maintenance Science
B.S. in Meteorology
B.S. in Space Operations
B.S. in Uncrewed Aircraft Systems

Masters

M.S. in Aviation
M.S. in Occupational Safety Management
M.S. in Space Operations
M.S. in Uncrewed Systems

Combined Program Pathways

B.S. in Aeronautical Science/Master of Business Administration
B.S. in Aeronautical Science/Master of Business Administration in Aviation Management
B.S. in Aeronautical Science/M.S. in Aerospace Business Analytics
B.S. in Aeronautical Science/M.S. in Aviation
B.S. in Aeronautical Science/M.S. in Aviation Finance
B.S. in Aeronautical Science/M.S. in Uncrewed Systems
B.S. in Aeronautics/Master in Business Administration
B.S. in Aeronautics/Master in Business Administration in Aviation Management
B.S. in Aeronautics/M.S. in Aerospace Business Analytics
B.S. in Aeronautics/M.S in Aviation
B.S. in Aeronautics/M.S. in Aviation Finance
B.S. in Aeronautics/M.S. in Uncrewed Systems
B.S. in Aerospace and Occupational Safety/M.S. in Aviation
B.S. in Aerospace and Occupational Safety/M.S. in Occupational Safety Management
B.S. in Aviation Maintenance Science/Master in Business Administration
B.S. in Aviation Maintenance Science/M.S. in Aviation
B.S. in Meteorology/M.S. in Aviation
B.S. in Uncrewed Aircraft Systems/M.S. in Aviation
B.S. in Uncrewed Aircraft Systems/M.S. in Uncrewed Systems

Ph.D.

Ph.D. in Aviation

Certificates

Aircraft Dispatcher Certification