

# Aviation Technology - Maintenance Management, BS

**Department:** School of Applied Sciences, Technology and Education

**College:** College of Agriculture and Applied Sciences

## Overview

### About This Degree

The aviation technology - maintenance management major prepares students for entry-level positions in management and maintenance programs within the airline industry, corporate aviation, and general aviation. Students acquire skills in flight principles and aircraft structures, aircraft maintenance, and aircraft systems through hands-on experience while working closely with professional instructors.

Students complete all of the courses required for the Federal Aviation Administration (FAA) Airframe and Powerplant (A&P) licenses, so when they graduate they have a bachelor's degree as well as meeting the FAA requirements to test for the A&P licenses, which qualifies them to work on certain aircraft and engines. Students take classes in advanced turbine engines, aviation law, and composite structures. Computer literacy, management, and communications courses are incorporated into the program to provide essential business skills, and students also take courses in physics, mathematics, and electronics to further enhance their technical knowledge.

Internship opportunities are available to junior and senior students from several companies and state agencies nationwide. These internships give students the opportunity to work for a semester in an industrial setting. Because of this invaluable experience, many interns receive job offers from these companies prior to graduation.

## Career Options

With a degree in aviation technology - maintenance management, students can pursue careers in the following areas:

- Maintenance management/technician (airlines, corporate aviation, general aviation)
- Fixed-base operator maintenance (general aviation)
- Federal Aviation Administrator (government)
- Aircraft inspector
- National Transportation Safety Board
- Aircraft engine and component manufacturer
- Repair station managers
- Aerospace manufacturers

[Career Services](#) provides counseling and information on hundreds of job and internship opportunities and even helps students apply and interview.

## What it takes

### Admissions Requirements

In addition to Utah State University's [admissions requirements](#), the aviation technology - maintenance management program has additional requirements:

- **Freshmen:** New freshmen admitted to USU in good standing qualify for admission to this major.
- **Transfer students:** Transfer students from other institutions need a 2.5 total GPA for admission to this major and students transferring from other USU majors need a 2.4 GPA.

International students have [additional admissions requirements](#).

### Major Requirements

[Click here](#) to see course requirements for the **Bachelor of Science**.

Students are required to furnish their own basic set of tools and toolbox. With special discounts available through USU, prices range from \$900 to \$1,400.

## Contact

### Advising

All new USU students participate in a [New Student Orientation](#) program, where they receive detailed information about major requirements, registering for classes, and other important advising information.

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## Get Involved

### Professional Organizations, Honor Societies, and Clubs

**Women in Aviation, International:** WAI is a nonprofit organization dedicated to the encouragement and advancement of women in all aviation career fields and interests. Membership includes astronauts, corporate pilots, maintenance technicians, air traffic controllers, business owners, educators, journalists, flight attendants, high school and university students, air show performers, airport managers, and many others. WAI also offers educational outreach programs to educators, aviation industry members, and young people nationally and internationally.

**Alpha Eta Rho (USU Pilot Club):** AHP is an international aviation fraternity. The purpose of AHP is to act as middle ground between students studying aviation at a university and the aviation industry.

**Silver Wings:** The purpose of Silver Wings is to provide service to the community, to provide leadership opportunities to members, and to act as a liaison between the Air Force and civilians. Students do not have to have any connection to the Air Force to join Silver Wings.

**Society of Aviation Maintenance Professionals:** SAMP is a student-run club available for all students interested in airplanes and understanding how they work. The club meets monthly to participate in skill-building projects, learn from guest speakers, and to learn about internship opportunities.

### Labs, Centers, Research

With the second oldest [undergraduate research](#) program in the nation, USU offers students a wide range of opportunities to gain hands-on research experience. The [Undergraduate Research and Creative Opportunities](#) program allows students to apply for grants and receive funding. USU's [Honors Program](#) prepares students for excellent graduate programs by helping them build relationships with professors, participate in research projects, take smaller, more intensive classes, and develop leadership skills.

**Logan Cache Airport:** This airport has more than 26,000 square feet of hangar space to house a fleet of 16 modern aircrafts. It stores USU's 14 single-engine and two twin-engine aircrafts. The heart of the flight operation stands in the newly remodeled dispatch and pilot center at the airport, providing the latest electronic weather forecasting equipment for students. The flight simulation center and classrooms designed specifically for pilot training is also located at the Logan Cache Airport. The airport also provides modern aircraft for cutting-edge instruction in aircraft maintenance and repair.

**Rocky Mountain NASA Space Grant Consortium:** RMNSGC is one of 52 National Space Grant Consortia in the United States. As a member of the consortium, USU has awarded more than 100 fellowships to students interested in aerospace-related education and careers. The majority of Space Grant student awards include a mentored research experience with university faculty and NASA scientists, engineers, and technologists.

**Space Dynamics Laboratory:** SDL is known for sending 500+ successful experiments into space and brings in \$54 million per year in revenue, the majority coming from grants, contracts, and appropriations. SDL's expertise in the development of sensors and calibration, small satellites and real-time intelligence has made it an internationally known organization in the space arena.

