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ideas.**  
Real-world thinking.



**MINNESOTA STATE  
UNIVERSITY**  
MANKATO

## AVIATION *College of Education*

### DEGREES AND PROGRAMS OFFERED

The Department of Aviation offers a four-year Bachelor of Science degree in Aviation with a concentration in Professional Flight and Aviation Management. Our Professional Flight program launches graduates into a piloting career by providing excellence in flight training backed by a solid classroom foundation. We strongly encourage our students to supplement their education by electing to take one of the minors the university has to offer. Many Aviation Management majors follow this path to help to provide them with a base for career success in the aviation industry. Students who go through our program are given the advantage of diversity in their knowledge, preparing the best for what the industry will need now, and in the future.

### CAREER OPPORTUNITIES

At this point in time, the aviation industry has many positions in flying and management available. The aviation industry is experiencing the strongest hiring wave it has ever seen. In the decade following 2001, hiring news from the industry focused mainly on the loss of opportunity, but now a new era has begun in aviation. Within the next 20 years, the industry as a whole will be requiring over 600,000 pilots world-wide. Many new employees will be required to fill aircrew positions and to facilitate sustained airline growth over the same period as managers.

### PILOTING

Job openings for a piloting career are numerous. Across the world, pilots are needed in every facet of aviation from airlines to corporate flight departments, the military and much more. The most common path to enter the professional flying career is to become a certified flight instructor. While flight instruction can lead to a career of its own, this is often used by pilots to build the flight time and experience required by the Federal Aviation Administration (FAA) and airline companies who do the hiring. Once hired into a career field, aviation promises steady growth from one position to the next as pilots work their way to senior positions. Despite the cost of training, pilots look forward to a fulfilling, rewarding career which will eventually compensate them for early sacrifices.

### MANAGEMENT

Like piloting, there are many opportunities for aviation managers around the world. These include airport management, airline dispatch, marketing, sales, flight school management, planning and forecasting, fixed base operations, regulatory oversight to name a few. Many of our graduates find careers with airlines, airports, and the Federal Aviation Administration, among others. Students who pursue the aviation management emphasis will not only learn about aviation management, airport and airline operations aviation safety and human factors, but will also receive a solid foundation in the areas of marketing, finance, accounting and project management. An aviation management concentration opens the door to a career path with abundant options around the globe.

### EXAMINING THE QUALITY OF OUR PROGRAM

The Program is fully accredited by the Higher Learning Commission and Aviation Accreditation Board International (AABI). The Department also maintains an active membership with the University Aviation Association. Interested students will find professional flight training with technologically advanced aircraft, giving a jump start to a career in any sector of the market which flies aircraft with the same instrumentation. Quality and safety in education are maintained through the department's instructor development program and an active safety program. In addition, flying jobs including flight instructor positions are available to the student during their education as they become qualified. This is a terrific opportunity for students to build flight experience while completing their degree.

Flight training is provided by North Star Aviation at the Mankato Regional Airport, which is located 15 minutes from the campus. The airport facility houses two Redbird full-motion simulators which can be used by students at any time during their training, flight planning facilities designed solely for students in the program, a computer center used for studying while at the airport, and the flight dispatch center. The newly renovated flight center also includes a student study lounge and food mart. The newest addition to our program is in the Wiecking Center on campus, an Aerosim CRJ700 Jet Flight Training Device (FTD) which is used to help student pilot's transition into airline flying procedures and prepare them for a great career.

### HOW TO PREPARE FOR OUR PROGRAM

Specific program considerations are included in the student handbook, which can be accessed through our webpage. However, on the whole, no prior flight experience is required before entering our program. Our program trains pilots from zero flight time to fully certified commercial pilots. As a high school student, we recommend a balanced set of courses with as much depth as possible into mathematics, physics, as well as both written and oral communication. Of course, any aviation course offered by your school is a plus!

### AVIATION COMMUNITY ON CAMPUS

The Aviation program boasts four great opportunities for incoming students to take advantage of: Women in Aviation International Northern Lights Chapter, the National Intercollegiate Flying Association (NIFA) registered Maverick Flight Team, Aviation Management Club and NGPA. These organizations combine to provide a wonderful learning environment where lifelong connections can be made, and education goes well beyond the classroom.

Freshman inbound to the program also have the opportunity to reside in the Aviation Learning Community (LC), a program that allows students to live on the same floor with an upper division student, Learning Community Coordinator. LC participants take first year courses together and partake in aviation activities organized by the Learning Community Coordinator. Membership in Aviation organizations and the LC living environment have proven very beneficial to the success of a student in the program, and beyond!

## INTERNSHIPS

The Department of Aviation strongly recommends that students participate in internships to expose themselves to aviation experiences. The program is proud to have many ongoing internship relationships and pilot pathway programs and with Delta Propel, Sun Country Airlines, Endeavor Air, Compass Airlines, Minnesota Business Aviation Association, Metropolitan Airports Commission, AirSpace Minnesota and more. Numerous students from each concentration have followed these opportunities into full employment offers. On top of program partnerships, there is a wide selection of internships across the country depending on what a student wishes to pursue.

## FACULTY

All of the faculty members in the department have professional aviation experience. Professors have worked in both the civilian or military sectors of flying and can bring practical education experience that goes beyond theory. Members also maintain flight instructor credentials to better understand student issues in the flight training portion of their learning. Flight instructors hired by our flight training provider are primarily those who have also completed our rigorous instructor development program.

## SCHOLARSHIPS AVAILABLE

The Program and Department offer many scholarship opportunities each year to high-achieving students who are active in organizations and their education.

## FOR MORE INFORMATION PLEASE CONTACT

### Department of Aviation

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### Email

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www.mnsu.edu/aviation

To schedule a visit with Aviation email: aviation@mnsu.edu

To arrange for your full campus visit please call:

Office of Admissions: 507-389-1822

Tollfree: 800-722-0544

## SAMPLE FOUR-YEAR CURRICULUM (PROFESSIONAL FLIGHT, BS)

First Year (Fall)	First Year (Spring)
AVIA 101 World of Aviation (3) AVIA 150 Private Pilot (3) AVIA 151 Private Lab I (2) MATH 112 College Algebra (4) General Education Area 5 (3) FYEX 100 First Year Seminar (1)	AVIA 153 Private Lab II (1) PHYS 101 Introductory Physics (3) General Education Area 7 (3) ENG 101 Composition (GA 1A) (4) General Education Area 6 (3)
Second Year (Fall)	Second Year (Spring)
AVIA 201 Theory of Flight (3) AVIA 240 Instrument (3) AVIA 241 Instrument Lab I (2) AVIA 243 Instrument Lab II (1) GEOG 217 (4) Writing Intensive Course (3)	AVIA 250 Commercial (3) AVIA 251 Commercial Lab I (2) General Education Area 1B (3) General Education Area 9 (3) General Education Area 10 (3) General Education Area 6 (3)
Third Year (Fall)	Third Year (Spring)
AVIA 253 Commercial Lab 2 (2) AVIA 334 Aviation Management (3) General Education Area 3 (3) General Education Area 2 (3) General Education Area 11 (3) General Elective (3)	AVIA 360 Flight Instructor (3) AVIA 361 Initial CFI (1) AVIA 362 SE CFI-A Add on (1) AVIA 363 CFH Fit Lab (1) AVIA 445 Human Factors (3) Writing Intensive Course (3)
Fourth Year (Fall)	Fourth Year (Spring)
AVIA 338 Advanced Aircraft Sys. (3) AVIA 340 Flight Operations (3) AVIA 432 Aviation Law (3) AVIA 437 Aviation Safety (3) 300/400 Elective (3)	AVIA 436 Flight Ops and Proc. (3) AVIA 450 Pro Pilot Theory (3) AVIA 451 Pro Flight Simulator (3) AVIA 455 Aircraft Performance (3) 300/400 Elective (3)

For additional information about course requirements, please visit <https://mankato.mnsu.edu/academics/academic-catalog/>

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