DEAR PROSPECTIVE GRADUATE STUDENT,

I am pleased that you are interested in pursuing a Master of Science in Aviation and Transportation (MSAT) degree at Lewis University. The industry will always need well-educated professionals to meet the challenges in maintaining the extremely high safety and security standards that characterize air and ground transportation today. The future brings new challenges as well: the global impacts of transportation, the incorporation of safety management systems, the integration of unmanned vehicles, and contemporary opportunities such as sustainability, alternative fuels, green technologies - are just a sampling of the many issues we address in this master's program through coursework, research, and partnerships with industry and government. The MSAT is a multi-faceted degree program that prepares graduates for transformational roles in the aviation and transportation industry. This program was developed to provide the knowledge and skills necessary to advance students in their current aviation and transportation careers, as well as transition graduates for new career opportunities. Our Concentration Options expose students to current issues in Management, Operations, and Safety. Some of our recent graduates are enjoying rewarding careers at the FAA, Chicago Department of Aviation, major U.S. airlines, global transportation logistics companies, and top-tier Universities.

We recognize that today’s graduate student seeks fine quality, adult-oriented academic programs, as well as convenience and flexibility in the format and delivery of courses. All of the Aviation and Transportation classes are available in both the traditional classroom and online formats. Students may choose the class format that best fits their individual preferences, work schedules and location.

FEATURES OF THE GRADUATE PROGRAM COURSE DELIVERY SYSTEM INCLUDE:

▶ Accelerated eight-week courses, offered online or on campus
▶ Ability to complete the program within two years while working full-time
▶ Ability for current Lewis University undergraduate students to start graduate courses through a 4 + 1 format

This viewbook provides an overview of the MSAT. I would be happy to answer any specific questions you may have. Information regarding admissions can be found on our website lewisu.edu or by contacting the Office of Graduate Admission at grad@lewisu.edu, or by phone at (815) 836-5811.

Sincerely,

Erik R. Baker, Ph.D.
Program Director for M.S. in Aviation and Transportation
MEET THE AVIATION AND TRANSPORTATION HIGH-DEMAND JOBS WITH AN ADVANCED DEGREE FROM A NATIONALLY RECOGNIZED LEADER IN AVIATION.

Whether you’re already an industry professional or looking to start a dynamic career in aviation and transportation – our faculty and staff will mentor and assist you through the process. It takes planning and time. More often than not, the journey is just as important as the destination. Lewis University’s Master of Science in Aviation and Transportation degree program is built to meet professional standards. Our courses emphasize a systems approach to manage safety (SMS), security, and regulatory compliance along with applied research and industry partnership opportunities. What’s more, our faculty provides the personalized attention that will equip you with the leading-edge skills and knowledge to help you find your opportunity to soar.

EARN YOUR GRADUATE DEGREE YOUR WAY.

We understand the challenges of juggling work, family and education. That’s why we offer 8-week courses in both online and traditional face-to-face formats led by industry-leading and experienced aviation faculty. You’ll get the quality education you’re looking for in the way that best works for your lifestyle.
StudentTalk
Watch videos of featured students
lewisu.edu/msaviation

ALLISON STEINKE
AVIATION FLIGHT MANAGEMENT
As a daughter of a SWA employee, Allison was able to participate in the Southwest Airlines Camp for children of employees. She was sold on becoming a pilot and recently graduated with her degree in flight management.

During her undergraduate degree, she decided to go on to complete her master’s in Aviation and Transportation. She wanted to be in classes with the professors she had heard so much about – for their experience, connections and advice. She also wanted to be prepared for other career options.

She feels she is receiving a much more personalized education at Lewis, in smaller classes, giving students more opportunity to grow and get advice from the faculty. She is currently working in University Ministry and as a part-time certified flight instructor, keeping busy and connected.

WHY MORE GRADUATE STUDENTS CHOOSE LEWIS
Take a closer look at Lewis and you will find a supportive environment to earn your degree. You’ll find a values-based, ethically focused approach to education from faculty who are experts in their fields.

You’ll find faculty and staff who understand your need to balance work, family and education and work with you to accomplish your goals. And you’ll find a respected, state-of-the-art institution of higher learning that’s been recognized by renowned publications, received prestigious awards and more. See for yourself:

- Nationally recognized aviation program, member of University Aviation Association (UAA), Aviation Accrediting Board International (AABI), and previous winner of the Loening Trophy for the outstanding all-around collegiate aviation program in the nation.
- Close proximity and exclusive connections with O’Hare and Midway Airports – the second busiest airport system in the world
- Recognized as a Top Regional University in the Midwest by U.S. News & World Report
- Recently named #1 Best Private College Value in Illinois by Great Value Colleges
- Small, interactive classes led by dedicated faculty who are experts in their field with real-world experience
- Employer tuition discount and deferral plans make Lewis one of the most affordable private universities in the Chicago area

U.S. News & World Report
TOP TIER
2020-2021

Princeton Review
BEST MIDWESTERN COLLEGE

lewisu.edu
A PREFERRED DESTINATION FOR INTERNATIONAL STUDENTS

Our Master’s in Aviation and Transportation program is a popular choice for our international students. We offer on-ground classes, a welcoming and supportive atmosphere, service, advocacy, and proximity to regional leading aviation organizations.

A FANTASTIC NEXT STEP FOR VETERANS

The military provided you with great leadership skills and training. Let us help you put those skills to work. You’ll experience full support from our Office of Veterans Affairs. We’re a partner in the Yellow Ribbon G.I. Education Enhancement program, which allows qualified veterans to enroll in more than 100 approved Lewis programs tuition free. Plus, you’ll find year-round flexibility on any combination of online or on-ground classes to fit your schedule.

OUR GRADUATES INFLUENCE AN ENTIRE INDUSTRY

Lewis faculty, staff and alumni have strong industry connections. Our graduates have a real effect on the future of the entire industry. Graduates are prepared for careers in higher education, industry, professional management, government and other agencies associated with transportation. These are just a few examples of where some of our recent graduates have gone on to upon earning their degree:

- FAA
- United Airlines
- American Airlines
- Southwest Airlines
- Delta Airlines
- PepsiCo
- Regional airlines
- Chicago Heliport
- University faculty
- Ph.D. programs
- HUB Group
- Schneider Logistics
- Chicago Transit Authority
- O’Hare Int’l Airport
- Midway Int’l Airport
- Argonne National Laboratory (co-op)
- Lewis University Flight Department
- Dispatch services
- Maintenance/Repair/Overhaul
- HEICO

StudentTalk

Watch videos of featured students
lewisu.edu/msaviation

STEPHAN REYNOLDS
AVIATION ADMINISTRATION

Stephan is currently applying to officer candidate school in the Marine Corps while finishing his M.S. in Aviation and Transportation online from California.

In high school, he knew he wanted to fly. He also excelled in Track and Field. Stephan was blown away by the Lewis aviation department, ran track until his junior year and was active in University Ministry, until he needed to move back home because of the pandemic.

He realizes that the coursework he has taken through the M.S. in Aviation and Transportation can be applied to anything. It is a very versatile program with a knowledge base and skills that go beyond aviation.

He plans to work in airport management with his master’s degree. His ultimate dream job would be as a corporate pilot for Disney!
LEARN HOW TO UTILIZE SAFETY MANAGEMENT SYSTEMS AND LEVERAGE HUMAN RESOURCES TO MEET AND EXCEED THE NEEDS OF THE TRANSPORTATION INDUSTRY.

Aviation and transportation involves a lot more than getting something or someone from Point A to Point B. It requires expertise in strategic planning, safety management, security, and operational resilience. The industry will always need well-educated professionals — those who have the knowledge to think critically and solve problems to create a safe, efficient and reliable experience. Lewis’ Master of Science in Aviation and Transportation will prepare you to take on this role by providing you with a strong understanding of transportation operations in the supply chain, human resources and labor relations, as well as how to utilize them to move the industry forward. We accomplish this through:

▶ A practical, focused and relevant curriculum aligned with industry specific guidelines
▶ Faculty with real-world experience
▶ Small class sizes so you receive the personalized attention that leads to success

▶ Opportunities to participate in instructor-led research studies that have real-world impact, including:
  ▶ Determining effects on crewmember vision during lasing events by developing a windscreen coating to reduce cockpit distraction
  ▶ Measuring pollutant reductions in alternative aviation fuels
  ▶ Analyzing safety culture in a burgeoning flight department Safety Management System
  ▶ Employing UAS technologies in civilian industry

ADMISSION REQUIREMENTS

You can begin anytime. We have six starts per year. In order to be accepted into this program, you must possess:

▶ A Bachelor’s degree in Aviation, Transportation or any regionally accredited Bachelor’s degree with some transportation experience.
▶ A Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale. In special cases, the GPA may be calculated on the most recent 60 semester hours of coursework.
▶ Provisional Admission: If you do not meet the GPA requirement above, you may request to be admitted to the program on a provisional basis. Provisionally admitted students must complete the first 9 semester hours of graduate study with a GPA of 3.0 or higher. The application will then be reviewed again for full admission.
MASTER OF SCIENCE
Aviation and Transportation (MSAT)

The Master of Science in Aviation and Transportation curriculum consists of a total of 36 credit hours, including a required nine hours of research core. To graduate with the Master of Science, the student must earn a minimum 3.0 GPA. Students must earn no more than two grades of C. No grade less than a C (2.0) will be accepted toward meeting graduation requirements.

Degree Offered: Master of Science
Total Credit Hours Required: 36

Degree Requirements

I. PROGRAM COURSEWORK (27)
Students will select 27 credit hours (nine courses) from any AVTR 50000-level course to develop their desired skill set, excluding courses required in the Research Core.

II. RESEARCH CORE (9)
AVTR-59500 Research Methods 1 (3)
AVTR-59600 Research Methods 2 (3)
AVTR-59700 Capstone Experience (3)

III. CONCENTRATIONS
Current concentrations include Management, Operations, and Safety. A student may declare a concentration in one or more specific area(s) or may select to get a degree without any specific concentration.

MANAGEMENT (12)
Concentration: MGMT
Students may earn the Management Concentration by completing any four (4) of the following courses:
AVTR-50000 Overview of the Aviation and Transportation Industry (3)
AVTR-51000 Strategic Planning for Aviation and Transportation (3)
AVTR-53000 Regulatory Systems for Aviation and Transportation (3)
AVTR-56000 Human Resource Management and Labor Relations (3)
AVTR-57000 Current Issues and Future Trends (3)
AVTR-58000 Special Topics in Aviation and Transportation (3)

Eligible special topics courses are AVTR-58004 Special Topics: Economics for Aviation & Transportation, AVTR-58007 Special Topics: Leadership in Aviation & Transportation, AVTR-58008 Special Topics: Technical Writing in Aviation & Transportation, and AVTR-58010 Special Topics: Lean Six Sigma in Aviation & Transportation.
### OPERATIONS (12)

**Concentration: OPER**

Students may earn the Operations Concentration by completing any four (4) of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AVTR-50000</td>
<td>Overview of the Aviation and Transportation Industry</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-54500</td>
<td>Transportation Operations in Supply Chain and Logistics</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-55500</td>
<td>Transportation Security and Operational Resilience</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-57000</td>
<td>Current Practices and Future Trends</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-58000</td>
<td>Special Topics in Aviation and Transportation</td>
<td>3</td>
</tr>
</tbody>
</table>

Eligible special topics courses are AVTR-58001 Special Topics: Unmanned Systems, AVTR-58005 Special Topics: Evolution of Air Traffic Control, AVTR-58006 Special Topics: Operations Research, AVTR 58011 Special Topics: Sustainability, and AVTR-58012 Special Topics: Commercial Space.

### SAFETY (12)

**Concentration: SAFE**

Students may earn the Safety Concentration by completing any four (4) of the following courses:

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVTR-50000</td>
<td>Overview of the Aviation and Transportation Industry</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-54000</td>
<td>Safety Management Systems for Aviation and Transportation</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-55000</td>
<td>Implementing Safety Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-57000</td>
<td>Current Practices and Future Trends</td>
<td>3</td>
</tr>
<tr>
<td>AVTR-58000</td>
<td>Special Topics in Aviation and Transportation</td>
<td>3</td>
</tr>
</tbody>
</table>

Eligible special topics courses are AVTR-58003 Special Topics: Fatigue Risk Management Systems and AVTR-58009 Special Topics: Human Factors and Psychology in Aviation & Transportation.

The research project “Incorporating UAS-supplied Ground and Arial Data into Emergency Response Applications” by Eric Swanson, Robert Landers and Adam Abbasi with Dr. Randy DeMik as faculty mentor received 2nd place at the Celebration of Scholarship.
APPLYING TO LEWIS UNIVERSITY IS SIMPLE:

▶ Complete the Graduate Application at lewisu.edu/apply.
▶ Submit official transcripts from all educational institutions attended.
▶ Attach a 1-2 page personal statement of purpose.
▶ Submit two letters of recommendation.

Start taking your career to the next level today!

TRANSFER CREDIT
A maximum of nine semester hours of graduate-level work earned at a regionally accredited institution of higher education will be accepted toward this degree. Only courses in which you received a B or higher will be accepted. Prior coursework should be current and have been completed within the last five years. All transfer credits must be documented and approved. The Program Director may require you to pass a proficiency exam for the corresponding Lewis course.

4 + 1 OPTION
This option allows qualified undergraduates at Lewis University to complete the Master’s in Aviation and Transportation in less time than would be possible if the two programs were taken separately. You can apply for admission to this option by submitting the department application form when you reach 75 credit hours and have an overall GPA of 3.0.

LET US TALK TO YOU ABOUT FUNDING YOUR EDUCATION

We’re dedicated to making your degree as affordable as possible. That’s why Lewis offers transfer-friendly credit policies, employer tuition discounts and tuition deferral plans. You might also qualify for Federal Stafford Loans, veterans’ benefits or scholarships. Put all those pieces together and you’ll find that we’re one of the most affordable private Universities in the Chicago area.

If you have any questions about the types of financial aid you may qualify for, contact our Office of Financial Aid Services at (815) 836-5263.

FREQUENT FLYER 20% TUITION DISCOUNT PROGRAM FOR ALUMNI

If you are an alum of Lewis University, you qualify for a 20% tuition discount through our Frequent Flyer program when admitted to a graduate degree. For more information regarding eligibility, contact the Office of Graduate Admission at (815) 836-5811 or grad@lewisu.edu.
Lewis University is located in the largest hub of intermodal transportation in the world!

For more information, contact us at grad@lewisu.edu or (815) 836-5610.