AVIATION AND TRANSPORTATION, M.S.

GRADUATE PROGRAM
Welcome Aboard!

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. For instance, the globalization of transportation, managing safety systems, unmanned aerial vehicles, and the sustainability of transportation - these are just a sampling of the many contemporary 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 careers in professional management, government, higher education, and other agencies associated with aviation and transportation. This program was developed to provide the knowledge and skills necessary to advance students in their current aviation and transportation careers, as well as possibly open up brand new career opportunities. Some of our recent graduates are enjoying challenging careers at the FAA, Chicago Department of Aviation, major U.S. airlines, top-tier Universities, and global transportation logistics companies.

We recognize that our graduate students are seeking fine quality, adult-oriented academic programs, as well as convenience and flexibility in the format and delivery of their courses. All of the Aviation and Transportation classes are available in both the traditional classroom and online formats. Students may choose the class formats that fit 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 view book 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 Web site lewisu.edu or by contacting the Office of Graduate Admission at grad@lewisu.edu, or by phone at (815) 836-5610.

Sincerely,

Randal J. DeNik, Ph.D.
Director of Graduate Studies, Aviation and Transportation
MASTER OF SCIENCE
Aviation and Transportation

Match the aviation and transportation high-demand jobs and advance your career with the Master of Science in Aviation and Transportation degree.

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.

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.
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 and awarded with the Loening Trophy for 2013-2014
- 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

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.

STUDENT TESTIMONIALS

ROB LANDERS (MS ’18)

“For many veterans, separating from the military is a challenging experience. Lewis University’s Office of Veteran’s Affairs simplified post-military integration by providing first-class service and stalwart support. Steadfast involvement from a compassionate team of VA professionals, organize professional development activities throughout the academic school year. As a retired warrant officer and former Blackhawk helicopter pilot, I unequivocally endorse the student and veteran-friendly services provided by Lewis. At Argonne National Laboratory, I work on cutting-edge research and development projects, helping reinforce the curriculum at Lewis University.”

PRIYANKA JOSHI (MS ’16)

“Working in the airline industry for three years after completing my bachelor’s degree in aviation, I was ready to pursue an advanced degree to further my career. Lewis University provided me with the perfect opportunity in the Master of Science in Aviation and Transportation (MSAT) program. I received a Graduate Assistant position that provided me with hands-on research experience. The program offered excellent classes and all the faculty were very helpful. They encouraged us to actively participate in aviation activities to make the learning process more practical and fun. The program hosts several on-site career fairs to help us get direct contact with aviation professionals, internship opportunities, and full-time jobs. I am very thankful for the opportunities I received at Lewis University which helped me to get a full-time job right after graduation.”

JOE URSONE (MS ’18)

“I am an international corporate captain routinely flying multi-week trips that make it impossible to attend a traditional classroom environment. Faced with this challenge I discovered the online MSAT program at Lewis University. This format provides me with the ability to complete my education while still traveling around the world. The classes are stimulating and rewarding, as they are relevant to today’s dynamic aviation industry. The professors are passionate about aviation, which only enhances the education experience. The ability to exchange ideas and experiences online with others has proven to be invaluable in continuing my aviation education.”

QUESTIONS? Contact us at (815) 836-5610 or grad@lewisu.edu.
DELIA VARGAS (MS ’18)

“Studying in the MSAT program at Lewis University has been the best decision of my life. By providing me with a wide knowledge about the main principles and current tendencies of the aviation and transportation industry, it has enhanced my previous background in aviation by creating new opportunities in any branch of the aviation and transportation field. As an international student under the Fulbright Scholar program, the selection of a university among the huge variety of options in the United States is one of the most difficult steps of the process. However, the recognized trajectory of Lewis University in aviation-related programs, as well as its strategic position near one of the biggest airports in the United States, made my decision easier. Definitely studying the MSAT at Lewis University is a great option to build a wide network of professionals and become a successful member of the aviation and transportation community.”

KAYAN TODIWALLA (MS ’16)

“Participating in the 4+1 option has enabled me to receive my master’s in Aviation and Transportation within one year after completing my undergraduate degree. Taking graduate level courses during my undergrad that counted for both degrees not only reduced the financial burden of a graduate degree but also challenged me to develop a much better understanding and appreciation of the different facets that make up the aviation and transportation industry.”

CHAS MARTINETZ (BS ’17)

“The 4+1 program allowed me to substitute graduate level courses in both of my undergrad majors in aviation. The flexibility of Lewis’ MSAT program helped support me in being a full-time student while using my VA benefits. The combination of night classes or online made pursuing internships and employment significantly easier. Plus, my instructors’ knowledge and real-world examples have provided me with information that will last a lifetime.”

RYAN CRABBE (MS ’10)

“Lewis’ MSAT program prepared me for a great career in the aviation industry. I am currently celebrating my third anniversary with United Airlines as a First Officer on the 737. The knowledge and skills that I developed at Lewis have afforded me the opportunity to work on various projects for United. Most recently I finished an assignment in the O’Hare Chief Pilot Office working as support for the Chicago-based pilot group. In 2016, I was a facilitator in United’s Leadership, Excellence, and professionalism program. This program was CRM-based and focused on developing mentorship and aviation skill sets. In 2015, United conducted a Line Operations Safety Audit (LOSA) of our entire fleet. I observed 17 different flight crews on all fleets including the 747 and 777. This amazing experience brought me to destinations such as Hong Kong, Guam, and the Marshall Islands. I love my career and I owe a lot of it to Lewis University.”

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
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

Curriculum

**Total Credit Hours Required:** 36

**I. CORE COURSES (27)**

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<td>AVTR-50000</td>
<td>Overview of the Aviation and Transportation Industry</td>
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<td>AVTR-51000</td>
<td>Strategic Planning for Aviation and Transportation</td>
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<td>AVTR-52000</td>
<td>Implementing Safety Management Systems</td>
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<td>AVTR-53000</td>
<td>Regulatory Systems for Aviation and Transportation</td>
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<td>AVTR-54000</td>
<td>Safety Management Systems for Aviation and Transportation</td>
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<td>AVTR-54500</td>
<td>Transportation Operations in Supply Chain Management</td>
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<td>AVTR-55500</td>
<td>Transportation Security and Operational Resilience</td>
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<td>AVTR-56000</td>
<td>Human Resource Management and Labor Relations</td>
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<td>AVTR-57000</td>
<td>Current Practices and Future Trends</td>
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**II. SKILLS AND RESEARCH (9)**

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<td>AVTR-59600</td>
<td>Research Methods II</td>
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<tr>
<td>AVTR-59700</td>
<td>Capstone Experience (Thesis or Practicum)</td>
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Admission Requirements
You can begin anytime. We have six starts/year. In order to be accepted into this program, you must possess:

• A Bachelor’s degree in Aviation 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.

Transfer Credit
A maximum of six 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 90 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) 836-5610 or grad@lewisu.edu.

Apply Now!
Applying to Lewis University is simple:

• Complete the Graduate Application at lewisu.edu/apply.
• Pay the $40 application fee.
• 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!
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.