

AVIATION MANAGEMENT AND LOGISTICS - M.S

College of Aeronautics and Engineering
 Aeronautics and Technology Building
 Kent Campus
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Program is pending approval from the Ohio Department of Higher Education

Description

The Master of Science degree in Aviation Management and Logistics prepares graduates to perform at an advanced level in organizations that move people and/or goods via air transport.

Students in the program examine the business of aviation logistics and its role in the global supply chain. In addition, they learn techniques necessary to understand and develop an aviation logistics model for producing an accurate and effective forecast for demand of aviation services.

Students are given practical experience in the negotiating, vetting and managing of vendor and labor contracts. They also learn the economic, regulatory, political, geographical and human-centric challenges facing the industry today, including profit strategies, human-error interventions tactics and post-9/11 security legislation concerning air cargo operations.

Safety policy, risk management, assurance and safety promotion are the key focus areas, and students take an in-depth study of the concepts, principals, design, implementation and administration of aviation safety management systems. As weather events are so disruption to an aviation organization, students gain an understanding of hazardous weather and the products to predict weather impact on aviation operations.

For the culminating requirement, students select either the thesis or capstone. Students selecting the thesis may be planning to advance to a doctorate or are interested specifically in research. The capstone consists of a scholarly paper or project that integrates knowledge attained through coursework and research experience. Students may undertake original empirical research, case studies, reports or research results, theoretical or applied designs of logistical systems. The capstone may include improvements on existing systems or completion of a project from an identified client. Students are engaged in workplace or internship applications of the capstone or empirical analysis of an aviation management and logistics system.

Fully Offered At:

- Online

Admission Requirements

- Bachelor's degree from an accredited college or university for unconditional admissions
- Minimum 3.000 undergraduate GPA on a 4.000 point scale for unconditional admissions

- Official transcript(s)
- Goal statement
- Two letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
 - Minimum 525 TOEFL PBT score (paper-based version)
 - Minimum 71 TOEFL IBT score (Internet-based version)
 - Minimum 74 MELAB score
 - Minimum 6.0 IELTS score
 - Minimum 50 PTE score

For more information about graduate admissions, please visit the Graduate Studies website. For more information on international admission, visit the Office of Global Education website.

Program Learning Outcomes

Graduates of this program will be able to:

1. Design, build, analyze and manage logistical systems at aviation organizations engaged in the transport of people and goods via air transport.
2. Perform management functions at an executive level overseeing the processes of an aviation organization.
3. Model and forecast logistical strategies for domestic and international aviation operations.
4. Analyze and manage safety systems, human error analysis and decision-making.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements		
AERN 65091	SEMINAR IN EMERGING ISSUES IN AVIATION LOGISTICS	2
AERN 65100	LOGISTICAL STRATEGIES IN AVIATION MANAGEMENT	2
AERN 65150	LEGAL AND REGULATORY ISSUES FOR AIR CARGO MANAGEMENT	2
AERN 65200	AVIATION ECONOMICS AND FISCAL MANAGEMENT	2
AERN 65230	MODELING AND FORECASTING FOR AVIATION LOGISTICS PLANNING	2
MIS 64005	ANALYTICS FOR DECISION MAKING	2
MIS 64041	OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT	2
MIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
TECH 60001	QUANTITATIVE METHODS IN TECHNOLOGY	3
TECH 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	3
TECH 60078	RESEARCH METHODS IN TECHNOLOGY	3
Major Electives, choose from the following: ¹		2-6
AERN 65092	PRACTICUM IN AERONAUTICS ²	
AERN 65201	AVIATION INDUSTRY CONTRACT MANAGEMENT	
AERN 65235	HUMAN ERROR ANALYSIS IN AVIATION	

AERN 65240	AVIATION SAFETY MANAGEMENT SYSTEMS	
AERN 65300	AIRLINE TRANSPORTATION OPERATIONS	
AERN 65301	AIR CARGO SECURITY	
AERN 65400	WEATHER FOR AVIATION LOGISTICS PLANNING ¹	
AERN 65496	INDIVIDUAL INVESTIGATION IN AERONAUTICS ²	
AERN 65499	CAPSTONE IN AERONAUTICS	
MIS 64158	LEADERSHIP AND MANAGERIAL ASSESSMENT	
or MIS 64271	HUMAN RESOURCE MANAGEMENT	
or MKTG 65051	MARKETING MANAGEMENT	
Culminating Requirement, choose from the following:		2-6
AERN 65199	THESIS I ³	
AERN 65499	CAPSTONE IN AERONAUTICS ³	
Minimum Total Credit Hours:		33

- ¹ Students with no previous aviation weather experience are required to take AERN 65400 as an elective. Minimum credit hours for electives depends on meeting total 33 credit hours for degree.
- ² Maximum 6 credit hours of AERN 65092 and AERN 65496, combined, may be applied toward degree.
- ³ Students selecting the thesis option must continually register for AERN 65199 for maximum 6 credit hours toward the degree (students may need to register for AERN 65299 to complete the thesis requirement; however, those credit hours do not, whatsoever, count toward the degree). Students selecting the capstone may be repeat the course for maximum 6 credit hours toward degree.