

AVIATION MANAGEMENT AND LOGISTICS - M.S.

College of Aeronautics and Engineering
 School of Aeronautics
 www.kent.edu/cae

About This Program

Take your aviation career to new heights with the M.S. degree in Aviation Management and Logistics. Our hands-on curriculum prepares you for success in operations, logistics, safety and more, with experienced faculty bringing real-world industry knowledge to the classroom. Whether you are advancing your career or making a change, our program sets you on the path to achieving your goals. For an added advantage, pair the M.B.A. with this degree. Read more...

Contact Information

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- Connect with an Admissions Counselor

Program Delivery

- **Delivery:**
 - Fully online

Applications to the M.S. in Aviation Management and Logistics are not being accepted at this time.

Examples of Possible Careers and Salaries*

Aircraft cargo handling supervisors

- 5.4% faster than the average
- 9,600 number of jobs
- \$53,610 potential earnings

Transportation, storage, and distribution managers

- 3.5% about as fast as the average
- 139,400 number of jobs
- \$96,390 potential earnings

First-line supervisors of transportation and material-moving workers, except aircraft cargo handling supervisors

- 5.1% faster than the average
- 456,700 number of jobs
- \$54,870 potential earnings

Additional careers

- Airline and air carrier operations manager
- Research

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

Applications to the M.S. in Aviation Management and Logistics are not being accepted at this time.

- Bachelor's degree from an accredited college or university
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- 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 to waive) by earning one of the following:¹
 - Minimum 71 TOEFL iBT score
 - Minimum 6.0 IELTS score
 - Minimum 50 PTE score
 - Minimum 100 DET score

¹ International applicants who do not meet the above test scores may be considered for conditional admission.

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
AERN 65240	AVIATION SAFETY MANAGEMENT SYSTEMS	2
BA 54038	ANALYTICS IN PRACTICE	3
or BA 64018	QUANTITATIVE MANAGEMENT MODELING	
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64036	BUSINESS ANALYTICS	3
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
Major Electives, choose from the following: ¹		6
AERN 65092	PRACTICUM IN AERONAUTICS ²	
AERN 65201	AVIATION INDUSTRY CONTRACT MANAGEMENT	
AERN 65235	HUMAN ERROR ANALYSIS IN AVIATION	
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
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY
HRM 64271	HUMAN RESOURCE MANAGEMENT
	or MGMT 64158 LEADERSHIP
	or MKTG 65051 MARKETING MANAGEMENT
MGMT 64158	LEADERSHIP
<i>Culminating Requirement</i>	
Choose from the following:	2-6
AERN 65199	THESIS I (with advisor approval) ³
AERN 65499	CAPSTONE IN AERONAUTICS ⁴
Minimum Total Credit Hours:	30

- ¹ Students with no previous aviation weather experience are required to take AERN 65400 as an elective. The minimum credit hours for electives depends on meeting 30 total credit hours for the degree.
- ² Maximum 6 credit hours of AERN 65092 and AERN 65496, combined, may be applied toward the degree.
- ³ Students who are planning to advance to a doctorate or are interested specifically in research may complete a thesis in place of the capstone with advisor approval. Students selecting the thesis 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). With the thesis, students will complete the M.S. degree at 34 credit hours.
- ⁴ 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.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

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.

Dual Degree with Master of Business Administration

Applications to the Dual Degree M.B.A./M.S. Aviation Management and Logistics are not being accepted at this time.

Students have the opportunity to complete a dual degree program with the M.S. degree in Aviation Management and Logistics and the M.B.A. degree in Business Administration. A separate application must be submitted for each program. Students can view admission requirements for each program on their respective catalog page.

The dual M.S./M.B.A. degree program prepares students for responsible leadership positions and provides an integrated business and aviation management and logistics education with an emphasis on regional, national and global implications in the field of aviation.

Dual Degree Requirements

Code	Title	Credit Hours
Major Requirements		
ACCT 63037	FINANCIAL ACCOUNTING FOR DECISION MAKING	2
ACCT 63038	MANAGERIAL ACCOUNTING FOR DECISION MAKING	2
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
BA 64005	ANALYTICS FOR DECISION MAKING	2
BA 64026	SUPPLY CHAIN MANAGEMENT	2
CIS 64042	GLOBALIZATION AND TECHNOLOGY STRATEGY	2
ECON 62021	MACROECONOMIC ENVIRONMENT OF BUSINESS	2
ECON 62022	MANAGERIAL ECONOMICS	2
ENGR 60003	SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT	2
ENGR 60030	QUANTITATIVE METHODS I	2
ENGR 60040	QUANTITATIVE METHODS II	2
ENGR 60078	RESEARCH METHODS	2
FIN 66050	LAW AND ETHICS	2
FIN 66060	MANAGERIAL FINANCE	2
HRM 64271	HUMAN RESOURCE MANAGEMENT	2
MGMT 64158	LEADERSHIP	2
MGMT 68051	BUSINESS PROFESSIONAL DEVELOPMENT I ¹	1
MKTG 65051	MARKETING MANAGEMENT	2
Ambassador Crawford College of Business and Entrepreneurship Graduate Elective (50000 level or higher), choose from the following:		3
Accounting (ACCT) Course		
Business (BUS) Course		
Business Analytics (BA) Course		
Computer Information Systems (CIS) Course		
Economics (ECON) Course		

Entrepreneurship (ENTR) Course		
Finance (FIN) Course		
Human Resource Management (HRM) Course		
Management (MGMT) Course		
Marketing (MKTG) Course		
Aeronautics Electives, choose from the following: ²		4
AERN 65092	PRACTICUM IN AERONAUTICS ³	
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 ²	
AERN 65496	INDIVIDUAL INVESTIGATION IN AERONAUTICS ³	
<i>Culminating Requirement</i>		
MGMT 64399	BUSINESS STRATEGY	3
Minimum Total Credit Hours:		53

¹ MGMT 68051 is required for students who have not worked a minimum of two years, full-time, since obtaining their bachelor’s degree. **Students waived the course may graduate with 52 credit hours.**

² Students with no previous aviation weather experience are required to take AERN 65400 as an elective.

³ Maximum 6 credit hours of AERN 65092 and AERN 65496, combined, may be applied toward degree.

Full 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.