

AVIATION MANAGEMENT - B.S.

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

About This Program

Interested in leading aviation operations, managing logistics and making high stakes decisions in a global industry? The Aviation Management program prepares students for a wide range of leadership roles across the aviation sector, including airport and airline operations, safety management, consulting, logistics and regulatory compliance, while also preparing them to navigate the next generation of challenges and innovations shaping the future of air transportation. Read more...

Contact Information

- cae@kent.edu | 330-672-2892
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
 - In person
- **Location:**
 - Kent Campus

Examples of Possible Careers and Salaries*

Transportation, storage, and distribution managers

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

Additional careers

- Aerospace project manager
- Airline operations manager
- Airport duty manager
- Airport operations specialist
- Airport planner
- Air service development analyst
- Assistant aviation director
- Aviation business analyst
- Aviation inspector
- Aviation public information officer
- Aviation safety analyst
- Cargo operations manager
- Charter operations manager
- Concessions and ground transportation manager
- Deputy airport director

- Deputy director of operations
- Fixed base operator (FBO) manager
- Flight dispatcher (with training/certification)

Accreditation

The B.S. degree in Aviation Management is accredited by the Aviation Accreditation Board International, Federal Aviation Administration.

* 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.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of proficiency of the English language (unless they meet specific exceptions) through the submission of an English language proficiency test score or by completing English language classes at Kent State's English as a Second Language Center before entering their program. For more information, visit the admissions website for international students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Transfer Students: Transfer students must have a minimum 2.250 overall GPA in all college-level coursework for admission to the Aviation Management major.

Transfer students visit the admissions website for transfer students for more information.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Students may be required to meet certain criteria to progress in their program. Any progression requirements will be listed on the program's Coursework tab

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
AERN 15000	INTRODUCTION TO AERONAUTICS	3
AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
AERN 25250	ELEMENTS OF AVIATION WEATHER	3
AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35031	AIR TRANSPORTATION INDUSTRY REGULATIONS	3
AERN 35339	FIXED BASE OPERATOR OPERATIONS	3
AERN 35340	AIRPORT MANAGEMENT	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
AERN 45040	LABOR RELATIONS IN AVIATION	3
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45150	APPLIED FLIGHT DYNAMICS I	3
AERN 45199	AIRPORT OPERATIONS (ELR)	3
AERN 45250	AVIATION LAW	3
AERN 45299	STRATEGIC AVIATION MANAGEMENT (ELR) (min C grade)	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC) ¹	3
COMM 20001	INTERPERSONAL COMMUNICATION	3
ENGR 13586	COMPUTER AIDED DESIGN I	2
ENGR 13587	COMPUTER AIDED DESIGN I LABORATORY	1
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Additional Requirements (courses do not count in major GPA)		
CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING ²	1-3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
UC 10001	FLASHES 101	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences		3

General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) 4

Minimum Total Credit Hours: 120

¹ A minimum C grade must be earned to fulfill the writing-intensive requirement.

² Students scoring 34 or below on the ALEKS math assessment are required to enroll in CAE 12260 until they successfully complete MATH 00022.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.500	2.500

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this program. Students will work with their advisor to develop a sequence based on their academic goals and history. Courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One			Credits
!	AERN 15000	INTRODUCTION TO AERONAUTICS	3
!	AERN 15745	NON-PILOT ELEMENTS OF FLIGHT THEORY	3
	AERN 25350	FUNDAMENTALS OF AIR TRAFFIC CONTROL	2
	AERN 25351	FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY	1
	CAE 12260	SOLVING PROBLEMS IN AERONAUTICS AND ENGINEERING	1
!	MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
	UC 10001	FLASHES 101	1
Kent Core Requirement			3
Credit Hours			17
Semester Two			Credits
	AERN 25100	INTRODUCTION TO AVIATION MANAGEMENT	3
	ENGR 13586	COMPUTER AIDED DESIGN I	2
	ENGR 13587	COMPUTER AIDED DESIGN I LABORATORY	1
	MATH 11022	TRIGONOMETRY (KMCR)	3
Kent Core Requirement			3
Kent Core Requirement			3
Credit Hours			15
Semester Three			Credits
	AERN 25250	ELEMENTS OF AVIATION WEATHER	3
	ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
	PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	4
	PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	1
Kent Core Requirement			3
Credit Hours			14
Semester Four			Credits
	ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
	AERN 35340	AIRPORT MANAGEMENT	3
	COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
	MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Credit Hours			15

Semester Five		
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 35339	FIXED BASE OPERATOR OPERATIONS	3
AERN 35341	AIR TRANSPORTATION SYSTEMS	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3
Credit Hours		16
Semester Six		
AERN 35031	AIR TRANSPORTATION INDUSTRY REGULATIONS	3
! AERN 45150	APPLIED FLIGHT DYNAMICS I	3
COMM 20001	INTERPERSONAL COMMUNICATION	3
Kent Core Requirement		3
General Elective		3
Credit Hours		15
Semester Seven		
AERN 45130	PHYSIOLOGY AND HUMAN FACTORS IN AVIATION	3
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45199	AIRPORT OPERATIONS (ELR)	3
AERN 45250	AVIATION LAW	3
Kent Core Requirement		3
Credit Hours		15
Semester Eight		
AERN 45040	LABOR RELATIONS IN AVIATION	3
AERN 45299	STRATEGIC AVIATION MANAGEMENT (ELR)	3
AERN 45791	AVIATION SECURITY AND POLICY SEMINAR (WIC)	3
FIN 36053	BUSINESS FINANCE	3
General Elective		1
Credit Hours		13
Minimum Total Credit Hours:		120

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours

Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.

Total Credit Hour Requirement	120 credit hours
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Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate an understanding of the role of federal legislation and regulatory policies in the management of agencies, airlines, airports, businesses and other organizations in professional aviation.
2. Demonstrate and apply knowledge and understanding of the technical details involved in the effective management of employees and operational systems in professional aviation.
3. Accomplish successful academic work in aviation and allied academic disciplines in preparation for graduate level or professional credentialing.

The educational goals of the program are the following:

1. Exhibit the qualities of excellence, integrity, leadership, management and professionalism within their area of professional specialization in aviation.
2. Demonstrate a professional commitment to safety and contribute to the safety culture within their area of professional specialization in aviation.
3. Demonstrate the ability to improve aerospace for generations to come through experiential learning, creativity and innovation within their area of professional specialization in aviation.
4. Manifest the college's core values in the areas of collaboration, compassion, inclusiveness, innovation, integrity, respect and perseverance within their area of professional specialization in aviation.

Full Description

The Bachelor of Science degree in Aviation Management prepares students for entry-level management, supervisory and administrative positions in aviation and other aviation-related professional fields. This course of study combines technical and aeronautical courses with courses in management and information systems. Students entering this program should have an interest in helping or working with people and an ability to develop analytical and communicative capabilities.

The mission of the B.S. degree in Aviation Management is to prepare students for careers in aviation management and provide the professional aviation industry with qualified graduates who possess skill sets that comprise management principles, budgetary and

financial components and technical knowledge consistent with those of successful aviation professionals.