

# AVIATION MANAGEMENT - B.S.

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

## About This Program

With a blend of theoretical knowledge and practical experience, the Aviation Management major equips students with the skills needed to excel in aviation. Aviation Management students gain experience through operational field trips, internships and co-op programs at aeronautical facilities such as airports, and through research projects while learning from experienced faculty and industry professionals. Enroll now and soar toward a rewarding career in aviation. 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

- Airport management
- Airport operations

## 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 English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information, visit the admissions website for international students.

**Transfer Students:** Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer 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.

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

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the program's Coursework tab.

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

## Program Requirements

### Major Requirements

| Code                                                   | Title                                          | Credit Hours |
|--------------------------------------------------------|------------------------------------------------|--------------|
| <b>Major Requirements (courses count in major GPA)</b> |                                                |              |
| 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 THE AVIATION INDUSTRY                | 3          |
| AERN 45130                                                                                                           | PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT                  | 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) <sup>1</sup> | 3          |
| COMM 20001                                                                                                           | INTERPERSONAL COMMUNICATION                             | 3          |
| ENGR 13585                                                                                                           | COMPUTER AIDED ENGINEERING GRAPHICS                     | 3          |
| FIN 36053                                                                                                            | BUSINESS FINANCE                                        | 3          |
| HRM 34180                                                                                                            | HUMAN RESOURCE MANAGEMENT                               | 3          |
| MGMT 24163                                                                                                           | PRINCIPLES OF MANAGEMENT                                | 3          |
| MKTG 25010                                                                                                           | PRINCIPLES OF MARKETING                                 | 3          |
| <b>Additional Requirements (courses do not count in major GPA)</b>                                                   |                                                         |            |
| 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) |                                                         | 5          |
| <b>Minimum Total Credit Hours:</b>                                                                                   |                                                         | <b>120</b> |

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

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 major. However, 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         |
| !                     | MATH 11010 ALGEBRA FOR CALCULUS (KMCR)         | 3         |
|                       | UC 10001 FLASHES 101                           | 1         |
| Kent Core Requirement |                                                | 3         |
| Kent Core Requirement |                                                | 3         |
| <b>Credit Hours</b>   |                                                | <b>16</b> |

| Semester Two          |                                                             |           |
|-----------------------|-------------------------------------------------------------|-----------|
|                       | AERN 25100 INTRODUCTION TO AVIATION MANAGEMENT              | 3         |
|                       | AERN 25350 FUNDAMENTALS OF AIR TRAFFIC CONTROL              | 2         |
|                       | AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY   | 1         |
|                       | ENGR 13585 COMPUTER AIDED ENGINEERING GRAPHICS              | 3         |
|                       | MATH 11022 TRIGONOMETRY (KMCR)                              | 3         |
| Kent Core Requirement |                                                             | 3         |
| <b>Credit Hours</b>   |                                                             | <b>15</b> |
| Semester Three        |                                                             |           |
|                       | 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         |
| <b>Credit Hours</b>   |                                                             | <b>14</b> |
| Semester Four         |                                                             |           |
|                       | 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         |
| <b>Credit Hours</b>   |                                                             | <b>15</b> |
| 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         |
| <b>Credit Hours</b>   |                                                             | <b>16</b> |
| Semester Six          |                                                             |           |
|                       | AERN 35031 AIR TRANSPORTATION INDUSTRY REGULATIONS          | 3         |
| !                     | AERN 45150 APPLIED FLIGHT DYNAMICS I                        | 3         |
| !                     | AERN 45250 AVIATION LAW                                     | 3         |
|                       | COMM 20001 INTERPERSONAL COMMUNICATION                      | 3         |
| Kent Core Requirement |                                                             | 3         |
| <b>Credit Hours</b>   |                                                             | <b>15</b> |
| Semester Seven        |                                                             |           |
|                       | AERN 45130 PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT           | 3         |
|                       | AERN 45135 AVIATION SAFETY THEORY                           | 3         |
|                       | AERN 45199 AIRPORT OPERATIONS (ELR)                         | 3         |
| !                     | AERN 45791 AVIATION SECURITY AND POLICY SEMINAR (WIC)       | 3         |
| Kent Core Requirement |                                                             | 3         |
| <b>Credit Hours</b>   |                                                             | <b>15</b> |
| Semester Eight        |                                                             |           |
|                       | AERN 45040 LABOR RELATIONS IN THE AVIATION INDUSTRY         | 3         |
|                       | AERN 45299 STRATEGIC AVIATION MANAGEMENT (ELR)              | 3         |
|                       | FIN 36053 BUSINESS FINANCE                                  | 3         |

|                                    |            |
|------------------------------------|------------|
| General Electives                  | 5          |
| <b>Credit Hours</b>                | <b>14</b>  |
| <b>Minimum Total Credit Hours:</b> | <b>120</b> |

## 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.                      |                         |
| <b>Total Credit Hour Requirement</b>                                                                                           | <b>120 credit hours</b> |

## Kent Core Requirements

|                                                                     |              |
|---------------------------------------------------------------------|--------------|
| Kent Core Composition (KCOMP)                                       | 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            |
| <b>Total Credit Hours:</b>                                          | <b>36-37</b> |

## 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 objectives 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 Bachelor of Science 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.

Students may apply early to the M.S. degree in Aviation Management and Logistics and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.