

AVIATION MAINTENANCE MANAGEMENT - B.S.

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

About This Program

The Aviation Maintenance Management program provides students with the theoretical and management knowledge as well as the interpersonal and relational skills needed to excel in the aviation maintenance industry. With experienced faculty and flexible delivery, you'll be prepared to succeed in a wide range of aviation maintenance management roles. Read more...

Contact Information

- Program Coordinator: **Jonathan Weaver** | jweaver9@kent.edu | 330-672-3197
- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
 - Fully online

Examples of Possible Careers

- Aviation Chief Inspector
- Aviation Maintenance Lead
- Aviation Maintenance Manager
- Aviation Maintenance Supervisor
- Director of Aviation Maintenance

Admission Requirements

Admission to this major is selective. Applicants must hold Airframe and Powerplant certificates issued by the Federal Aviation Administration (FAA) or the equivalent certification from an International Civil Aviation Organization (ICAO) member state.

International Students: All international students must provide proof of English language proficiency unless they meet specific exceptions. For more information, visit the admissions website for international students.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
AERN 22500	INTRODUCTION TO AVIATION MAINTENANCE MANAGEMENT	2
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 32400	AVIATION COMMUNICATIONS	2
AERN 42000	HUMAN FACTORS IN AVIATION MAINTENANCE	2

AERN 42799	STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) ¹	2
AERN 45135	AVIATION SAFETY THEORY	3
AERN 45400	AVIATION MAINTENANCE LAW AND REGULATIONS	2
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Major Electives, choose from the following:		11
AERN 32100	ADVANCED AIRCRAFT COMPOSITE TECHNOLOGY	
AERN 32200	AVIONICS MAINTENANCE FOR GLASS COCKPITS	
AERN 32300	INSPECTION AUTHORIZATION I	
AERN 35339	FIXED BASE OPERATOR OPERATIONS	
AERN 45040	LABOR RELATIONS IN THE AVIATION INDUSTRY	
AERN 45255	LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS	
AERN 45710	TURBINE ENGINE THEORY AND OPERATION	
Any Aeronautics (AERN) Upper-Division course (30000 or 40000 level) with college approval		
Any Engineering (ENGR) Upper-Division course (30000 or 40000 level) with college approval		
Additional Requirements (courses do not count in major GPA)		
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
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) ²		3
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		3
FAA Airframe and Powerplant Certification (or international equivalent)		30
General Electives (total credit hours depends on earning 120 credits hour, including 39 upper-division credit hours) ³		11
Minimum Total Credit Hours:		120

- ¹ A minimum C grade must be earned to fulfill the writing-intensive requirement.
- ² Recommended: ECON 22061 to complete requirement for the Business minor.
- ³ Recommended: CIS 24053 to complete requirement for the Business minor.

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 Prerequisite		Credits
FAA Airframe or Powerplant Certification (or international equivalent)		30
Credit Hours		30
Semester One		
AERN 22500	INTRODUCTION TO AVIATION MAINTENANCE MANAGEMENT	2
AERN 32400	AVIATION COMMUNICATIONS	2
! ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
! MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
Major Elective		2
Kent Core Requirement		3
Credit Hours		15
Semester Two		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
AERN 30000	PROFESSIONAL DEVELOPMENT IN AERONAUTICS	1
AERN 42000	HUMAN FACTORS IN AVIATION MAINTENANCE	2
! MATH 11022	TRIGONOMETRY (KMCR)	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Major Elective		2
Kent Core Requirement		3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		14
Semester Four		
AERN 45135	AVIATION SAFETY THEORY	3
FIN 36053	BUSINESS FINANCE	3
HRM 34180	HUMAN RESOURCE MANAGEMENT	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		15
Semester Five		
COMM 35852	INTERCULTURAL COMMUNICATION (DIVG)	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Major Electives		4
General Electives		6
Credit Hours		16
Semester Six		
AERN 42799	STRATEGIC AVIATION MAINTENANCE MANAGEMENT CAPSTONE (ELR) (WIC)	2
AERN 45400	AVIATION MAINTENANCE LAW AND REGULATIONS	2
Major Elective		3
Kent Core Requirement		3
General Electives		5
Credit Hours		15
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

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. Employ requisite knowledge, skills and techniques to supervise the inspection, repair and return of aircraft to service.
2. Integrate skills and knowledge essential to the management of aircraft maintenance programs with a focus on safety and efficiency.
3. Incorporate skills and knowledge needed to effectively lead and manage a team of people working in a maintenance repair organization.

Full Description

The Bachelor of Science degree in Aviation Maintenance Management is a completer program designed to prepare certified aviation maintenance technicians with the necessary knowledge and skills to further develop professionally and advance their careers in the areas of leadership, communication and management.

Students will be able to complete the bachelor's degree in under four years. Students are able earn the Business minor by choosing the final minor required courses from their general electives.