AVIATION MAINTENANCE MANAGEMENT - B.S.

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

About This Program

Already certified with your A&P license and ready to take the next step? The Aviation Maintenance Management program is designed for working professionals, combining technical knowledge with leadership, communication and business skills to prepare you for supervisory and management roles across the aviation maintenance industry. Read more...

Contact Information

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

Program Delivery

- **Delivery:**
  - Fully online

Applications to the B.S. in Aviation Maintenance Management are not being accepted at this time.

Examples of Possible Careers

- Aviation chief inspector
- Aviation maintenance lead
- Aviation maintenance manager
- Aviation maintenance supervisor
- Director of aviation maintenance

Admission Requirements

Applications to the B.S. in Aviation Maintenance Management are not being accepted at this time.

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.

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 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.

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) (WIC) [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 35339	FIXED BASE OPERATOR OPERATIONS	
AERN 45040	LABOR RELATIONS IN AVIATION	
AERN 45255	LEGAL ANALYSIS OF AVIATION AND ENGINEERING DISASTERS	
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
ECON 22061	PRINCIPLES OF MACROECONOMICS (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)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
FAA Airframe and Powerplant Certification (or international equivalent)		30
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) [2]		11
Minimum Total Credit Hours:		**120**

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

[2] Recommended: CIS 24053 and MGMT 34165 to complete requirements 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 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 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
	ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
!	MATH 11022	TRIGONOMETRY (KMCR)	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 manage others in the process of 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.

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 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.

The mission of the Bachelor of Science degree in Aviation Maintenance Management is to prepare students with the highest quality education for a career in aviation maintenance management, and provide aviation maintenance organizations with qualified candidates who possess skill sets consisting of solid management and communication principles, as well as technical skills consistent with those of successful aviation maintenance professionals.

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