

BACHELOR OF SCIENCE / ASSOCIATE OF SCIENCE / CERTIFICATE IN AVIATION MAINTENANCE MANAGEMENT

COMMITMENT TO QUALITY

Lewis University's commitment to quality aviation programs began in 1932 when aviation studies first were offered. The Harold E. White Aviation Center, including a \$2 million high-tech flight complex, is one of the most modern aviation education centers in the Midwest. The facility includes a flight simulator room, a computer laboratory, a dispatch center, as well as classrooms.

Today, Lewis is an acknowledged leader in aviation education, preparing maintenance technicians who are serving aviation and aviation-related industries on a worldwide basis. Students come to Lewis from across the United States and abroad.

At Lewis, aviation students may select one of several tracks, each preparing licensed Airframe and Powerplant (A & P) technicians. These programs include the bachelor's degrees in Aviation Maintenance Management, the associate's degree in Aviation, and the certificate in Aviation Maintenance Technology. Students earning the bachelor's degree may also specialize in avionics or nondestructive testing. A minor in flight is also available.

AVIATION CERTIFICATE PROGRAM IS FAA APPROVED

The Lewis University Maintenance Certificate courses are approved by the Federal Aviation Administration (FAA), under Title 14 of the Code of Federal Regulations, Part 147, and are continuously updated.

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BACHELOR OF SCIENCE

Lewis' Aviation Maintenance Management degree gives students the best of both worlds. The skills and technical training needed to become a certified aviation maintenance technician are combined with business expertise, preparing students to enter management and administrative careers in aviation and non-aviation industries.

The four-year program leads to the baccalaureate degree as well as the Airframe and Powerplant certificates.

As graduates of this program, students will be prepared, after having gained some practical experience, for technical management positions with airlines and repair facilities, as well as for careers as technical representatives, or positions in aircraft and/or component sales. Some students interested in a professional flight career will choose to add a minor in flight.

The degree requirements are built around Lewis' Federal Aviation Administration-approved aviation maintenance program. In addition to the required aviation courses, liberal arts courses from the University's general education sequence have been added as well as a special selection of courses from Lewis' College of Business. Coursework in areas such as economics, and management will help students become successful executives in the aviation field.

An increasing number of opportunities are to be found in many areas outside of aviation. The combination of a technical mechanical background and a knowledge of business procedures possessed by graduates of the program is unique and in demand by employers in other manufacturing and transportation industries in addition to aviation.

BACHELOR OF SCIENCE / AVIATION MAINTENANCE MANAGEMENT

Total Credit Hours: 128
Major Credit Hours: 89

This program is designed for the student who is planning a career in aviation maintenance management. The successful student will have a minimum of 128 credit hours and receive Lewis University Certificates of Completion for both Airframe and Powerplant.

I. Core Courses (80)

- 46-102 Introduction to Aviation (1)
- 46-106 Aviation Fundamentals (4)
- 46-110 Aircraft Structures I (4)
- 46-120 Aircraft Electricity I (4)
- 46-130 Introduction to A / C Structures and Engine NDT NDE (3)
- 46-135 Drafting and Blueprint Reading (3)
- 46-200 Aircraft Instruments (4)
- 46-201 Aviation Physics I (4)
- 46-202 Aviation Physics II (3)
- 46-210 Aircraft Structures II (4)
- 46-220 Aircraft Electricity II (4)
- 46-310 Aircraft Reciprocating Engines (4)
- 46-320 Aircraft Systems (4)
- 46-330 Aircraft Engine Accessories (4)
- 46-410 Gas Turbine Powerplants (4)
- 46-420 Aircraft Propellers (4)
- 46-430 Aircraft Inspection and Engine Testing (4)
- 47-321 Aviation Legislation (3)
- 47-353 Air Transportation (3)
- 47-373 Aviation Safety (3)
- 47-463 Aircraft Accident Investigation (3)
- 13-115 College Mathematics (3)
(or any higher-level Mathematics course)
- 06-111 College Writing I (3)

II. Management Courses (9)

- 61-200 Principles of Management (3)
- 61-360 Human Resource Management (3)
- 61-380 Supervisory Management (3)

III. General Education Courses* (39)

The following general education requirements are listed and satisfied under the core curriculum: The writing I requirement is met by College Writing I (06-111).

- The mathematics requirement is met by Intermediate Algebra (13-119).
- The two science requirements are met by Aviation Physics I & II (46-201 and 46-202).
- The college experience requirement is met by Introduction to Aviation (46 / 47-102).
- The advanced writing requirement is met by successful completion of Aviation Legislation (47-321) and Aircraft Accident Investigation (47-463).

* For details on additional required coursework, see the General Education section in this catalog.

MINOR / AVIATION MAINTENANCE TECHNOLOGY

Minor Credit Hours: 20

This minor is open to non-aviation maintenance technology majors. Classes include both lecture and shop. Course prerequisites must be considered when registering, and majors in aviation maintenance technology have registration priority.

Choose five of the following: (20)

- 46-106 Aviation Fundamentals (4)
- 46-110 Aircraft Structures I (4)
- 46-120 Aircraft Electricity I (4)
- 46-200 Aircraft Instruments (4)
- 46-210 Aircraft Structures II (4)
- 46-220 Aircraft Electricity II (4)
- 46-310 Aircraft Reciprocating Engines (4)
- 46-320 Aircraft Systems (4)
- 46-330 Aircraft Engine Accessories (4)
- 46-410 Gas Turbine Powerplants (4)
- 46-420 Aircraft Propellers (4)
- 46-430 Aircraft Inspection and Engine Testing (4)

CERTIFICATE / AVIATION MAINTENANCE TECHNOLOGY

Total Credit Hours: 65-66
Contact Hours: 1,950-1,965

The Airframe and Powerplant (A&P) Certificate is the heart of all maintenance degree programs. The A&P curriculum consists of 17 FAA-approved courses taken over four semesters with a total of 1,950 to 1,965 contact hours and 65 to 66 credit hours. A student in this program should plan to attend classes an average of 34 hours per week. The curriculum can be completed in 15 months by attending summer sessions (when offered) or, without summer sessions, in 21 months.

I. Certificate Credit Hours and Required Courses (65-66)

- 46-101 Aviation Mathematics (4)
OR
- 13-115 College Mathematics (3)
(or any higher-level Mathematics course)
- 46-102 Introduction to Aviation (1)
- 46-105 Aviation Technical Writing (3)
OR
- 06-xxx English writing course (English Placement Examination is required.) (3)
- 46-106 Aviation Fundamentals (4)
- 46-110 Aircraft Structures I (4)
- 46-120 Aircraft Electricity I (4)
- 46-130 Introduction to A / C Structures and Engine NDT NDE (3)
- 46-135 Drafting and Blueprint Reading (3)
- 46-200 Aircraft Instruments (4)
- 46-201 Aviation Physics I (4)
- 46-210 Aircraft Structures II (4)
- 46-220 Aircraft Electricity II (4)
- 46-310 Aircraft Reciprocating Engines (4)
- 46-320 Aircraft Systems (4)
- 46-330 Aircraft Engine Accessories (4)
- 46-410 Gas Turbine Powerplants (4)
- 46-420 Aircraft Propellers (4)
- 46-430 Aircraft Inspection and Engine Testing (4)

ASSOCIATE DEGREE / AVIATION MAINTENANCE TECHNOLOGY

Total Credit Hours: 77-78
Major Credit Hours: 68-69

This five-semester program prepares the student for a career in the field of aviation maintenance and includes additional business and written and oral communications courses. The successful student will complete a minimum of 77 to 78 academic credit hours and receive Lewis University Certificates of Completion for both Airframe and Powerplant.

I. Core Courses (68-69)

- 46-101 Aviation Mathematics (4)
OR
- 13-115 College Mathematics (3)
(or any higher-level Mathematics course)
- 46-102 Introduction to Aviation (1)
- 46-105 Aviation Technical Writing (3)
OR
- 06-xxx English writing course (English Placement Examination is required.) (3)
- 46-106 Aviation Fundamentals (4)
- 46-110 Aircraft Structures I (4)
- 46-120 Aircraft Electricity I (4)
- 46-130 Introduction to A / C Structures and Engine NDT NDE (3)
- 46-135 Drafting and Blueprint Reading (3)
- 46-200 Aircraft Instruments (4)
- 46-201 Aviation Physics I (4)
- 46-210 Aircraft Structures II (4)
- 46-220 Aircraft Electricity II (4)
- 46-310 Aircraft Reciprocating Engines (4)
- 46-320 Aircraft Systems (4)
- 46-330 Aircraft Engine Accessories (4)
- 46-410 Gas Turbine Powerplants (4)
- 46-420 Aircraft Propellers (4)
- 46-430 Aircraft Inspection and Engine Testing (4)
- 46 / 47-xxx Aviation Elective (3)

II. General Education Courses* (9)

- 04-xxx Economics option (3)
- 10-112 Introduction to Human Communication (3)
- 19-xxx Theology elective (19-100 or 19-106) (3)

* For more details on these courses, see the General Education section of this catalog.

BACHELOR OF SCIENCE / AVIONICS

Total Credit Hours: 156
 Major Credit Hours: 84+

The Department of Aviation and Transportation Studies Avionics specialization program is offered in cooperation with several Chicago metropolitan area community colleges. This program is accessible through any community college that has an associate's degree program in electronics. Students interested in this program can begin their coursework at a community college and complete their studies at Lewis. Upon successful completion of the program, the student will have an associate's degree in electronics from a cooperating community college, a minimum of 128 semester hours, a Bachelor of Science in Aviation Maintenance Management with Specialization in Avionics from Lewis University, and the following certificates:

- Lewis University Certificates of Completion for both Airframe and Powerplant
- Federal Communications Commission Certificate (General Class Radiotelephone)

Please note: Credit hours will vary depending on community college requirements.

I. Core Courses (75)

46-102 Introduction to Aviation (1)
 46-106 Aviation Fundamentals (4)
 46-110 Aircraft Structures I (4)
 46-120 Aircraft Electricity I (4)
 46-130 Introduction to A / C Structures and Engine NDT NDE (3)
 46-135 Drafting and Blueprint Reading (3)*
 46-200 Aircraft Instruments (4)
 46-201 Aviation Physics I (4)
 46-202 Aviation Physics II (3)
 46-210 Aircraft Structures II (4)
 46-220 Aircraft Electricity II (4)*
 46-251 Avionics I (2)
 46-310 Aircraft Reciprocating Engines (4)
 46-320 Aircraft Systems (4)
 46-330 Aircraft Engine Accessories (4)
 46-351 Avionics II (2)
 46-410 Gas Turbine Powerplants (4)

46-420 Aircraft Propellers (4)
 46-430 Aircraft Inspection and Engine Testing (4)
 06-111 College Writing I (3)*
 13-115 College Mathematics (3)
 (or any higher-level Mathematics course)
 06-300 Writing for the Professions (3)

* *Courses marked with the asterisk may either transfer to the community college or be transferred from the community college. Proficiency exams may be required.*

II. Electronics courses (approximately 39 credits from a community college)**III. General Education Courses** (33)**

The following general education requirements are listed and satisfied under the core curriculum:

- The writing I requirement is met by College Writing I (06-111).
- The mathematics requirement is met by College Mathematics (13-115).
- The two science requirements are met by Aviation Physics I and II (46-201 and 46-202).
- The college experience requirement is met by Introduction to Aviation (46 / 47-102).
- The advanced writing requirement is met by Writing for the Professions (06-300).

** *For details on additional required coursework, see the General Education section for transfer students in this catalog.*

IV. Management Courses (9)

61-200 Principles of Management (3)
 61-360 Human Resource Management (3)
 61-380 Supervisory Management (3)