



2009-2010
Career and Technical
Programs

Advanced
Technology Division
(541) 463-5380

Two-Year Associate
of Applied Science
Degree

Two-Year Certificate
of Completion

Aviation Maintenance Technician

Purpose To prepare technicians for Federal Aviation Administration (FAA) certification exams (written, oral and practical) for the airframe and powerplant airman's certificate. Federal regulations direct the following minimum number of hours of instruction for rating shown.

- Airframe is 1150 hours (400 General, plus 750 Airframe).
- Powerplant is 1150 hours (400 General, plus 750 Powerplant).
- Combined Airframe and Powerplant is 1900 hours (400 General, plus 750 Airframe and 750 Powerplant).

Learning Outcomes The graduate will:

- repair and maintain the operating condition of aircraft.
- pass the FAA written, oral and practical exams for licensing.
- demonstrate and use industry safety standards.
- access library, computing, and communications services and obtain information and data from regional, national, and international networks.
- interpret the concepts of a problem-solving task and translate them into mathematics.

Employment Trends Employment opportunities are favorable for trained aircraft mechanics. Annual new openings are expected to be at about the state average. Reasonable employment opportunities exist for trained workers. Those with an associate degree have a competitive advantage in this labor market.

Wages Statewide, \$16-21 hourly, \$25 median hourly, and \$52,783 average annually.

Costs in Addition to Tuition (estimates)*

Books	\$850
Tools	\$750-1,000
Fees.....	\$1,143
Total.....	\$2,743-2,993

* Subject to change without notice.

Program Approval The program is approved under Part 147 of the Federal Aviation Regulations of the Federal Aviation Administration.

Licensing or Other Certification Exams Required FAA oral, practical, and written certification exams are required.

Prerequisites Minimum placement score of 68 in Reading OR completion of RD 080 OR prior college. A high school diploma or equivalent is recommended for all applicants to this program. Procedures for crediting and guidelines for the determination of documented military or field experience are available through application with the FAA liaison.

Note See a counselor or advisor to learn what entry-level skills are suggested for successful completion of this program.

Criteria Used for Admission Students may enter major courses fall term. For consent to enroll in major courses, students must attend a program orientation for fall terms (dates available in Counseling or Enrollment and Student Financial Services) or contact advisor/counselor for possible entry in winter and spring terms.

Cooperative Education (Co-op) Co-op offers students college credit and a grade for on-the-job work experience related to their educational and career goals. Through Co-op, students connect theory and practice, develop skills, expand career knowledge, and make contacts for the future. Work schedules and work sites vary. Under the supervision of the Aviation Maintenance Co-op Coordinator and as approved by the FAA Liaison and Return to Service instructor, a maximum of six Co-op credits in AV 280 may be authorized in lieu of the final Return to Service course. Co-op may

Aviation Maintenance Technician

be taken summer term. Contact Marv Clemons, Aviation Maintenance Co-op Coordinator, Bldg. 8, Rm. 111, (541) 463-3158.

Program Advisor Betty Svarverud, Bldg. 12, Rm. 203, (541) 463-5378, svarverudb@lanecc.edu

Program Counselor Carolyn Litty, Bldg. 12, Rm. 202, (541) 463-5236, littyc@lanecc.edu

Two-Year Associate of Applied Science Degree

Required Prior to Beginning of First Year

MTH 076 Applied Geometry for Technicians ^{*,D,G,M}	or equivalent.....	4
WR 115W Introduction to College Writing: Workplace Emphasis ^{1,D,W} or higher writing		3

First Year	Fall	
AV 193 General 102 ^{*,D,G}	6	
AV 194 General 103 ^{*,D,G}	6	
AV 279 Airframe (Section 1) *	6	
Total Credits	18	

	Winter	
AV 192 General 101 ^{*,D,G}	6	
AV 195 General 104 ^{*,D,G}	6	
MTH 086 Applied Algebra for Technicians ^{*,2,D,G,S}	or higher mathematics.....	4
PE/Health requirement ^{1,3,D,R}	3	
Total Credits	19	

	Spring	
AV 279 Airframe (Section 2, 3, and 4) ^{*,D,G}	18	
Total Credits	18	

Second Year	Fall	
AV 281 Powerplant (Section 1 and 2) ^{*,D,G}	12	
Science/ Computer Science requirement ^{1,R}	3	
Total Credits	15	

	Winter	
AV 281 Powerplant (Section 3 and 4) *	12	
AV 282 Airframe Return to Service ^{*,D,G}	6	
Total Credits	18	

	Spring	
AV 283 Powerplant Return to Service ^{*,D,G}	6	
AV 196 General 105 ^{*,D,G}	6	
Arts/Letters requirement ^{1,R}	3	
Human Relations requirement ^{1,R}	3	
Elective AV 280 Co-op Ed: Aviation Maintenance (optional)		
Total Credits	18	

Two-Year Certificate of Completion

Required Prior to Beginning of First Year

MTH 076 Applied Geometry for Technicians ^{*,D,G,M}	or equivalent.....	4
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First Year	Fall	
AV 193 General 102 ^{*,D,G}	6	
AV 194 General 103 ^{*,D,G}	6	
AV 279 Airframe (Section 1) *	6	
Total Credits	18	

	Winter	
AV 192 General 101 ^{*,D,G}	6	
AV 195 General 104 ^{*,D,G}	6	
MTH 086 Applied Algebra for Technicians ^{*,2,D,G,M}	or higher mathematics.....	4
Total Credits	16	

	Spring	
AV 279 Airframe (Section 2, 3, and 4) ^{*,D,G}	18	
Total Credits	18	

Second Year	Fall	
AV 281 Powerplant (Section 1 and 2) ^{*,D,G}	12	
WR 115W Introduction to College Writing: Workplace Emphasis ^{1,D,W} or higher writing	3	
PE/Health elective ^{1,3,D}	3	
Total Credits	18	

	Winter	
AV 281 Powerplant (Section 3 and 4) ^{*,D,G}	12	
AV 282 Airframe Return to Service ^{*,D,G}	6	
Total Credits	18	

	Spring	
AV 283 Powerplant Return to Service ^{*,D,G}	6	
AV 196 General 105 ^{*,D,G}	6	
Human Relations requirement ^{1,H}	3	
Total Credits	15	

1. Not required for two-year FAA Airframe and Powerplant airman's certificate exams.
 2. MTH 065 or MTH 070 or higher mathematics may substitute for MTH 086.
 3. PE activity courses must be completed over at least 2 terms.
- Students interested in completing the FAA Airway Science requirements for two-year institutions should

Substitute:

- WR 121 English Composition: Exposition and Introduction to Argument for WR 115W Introduction to College Writing: Workplace Emphasis.
- SP 111 Fundamentals of Public Speaking for Arts/Letters requirement.
- MTH 111 College Algebra for Science/Computer Science requirement.

Add:

- WR 227 Technical Writing
- SP 130 Business and Professional Speech
- J 205 Public Relations
- Arts/Letters Elective (3 credits)
- Any 200 level Psychology course (3 credits)
- PH 101 or PH 102 Fundamentals of Physics
- AV 179 General Aviation

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Standard footnotes:

- * Prerequisite required
- A Meets Arts/Letters requirement
- B Must be passed with grade of "B-" or better to use as a prerequisite
- D Degree or certificate requirement; must be passed with grade of "C-" or better
- G Must be taken for a grade, not P/NP; major requirement

- H Meets Human Relations/Social Science requirement
- M Meets Mathematics requirement
- P Meets PE/Health requirement
- R Required for AAS degree
- S Meets Science/Math/Computer Science requirement
- W Meets Written Communications or English Composition requirement