

2011 - 2012 Career and Technical Programs

Lane Aviation Academy 541.463.4195

lanecc.edu

**Purpose** To prepare students for successful careers as pilots in the air transportation industry.

#### Learning Outcomes The graduate will:

- be certificated by the FAA as commercial pilot with an option for being FAA certified as a Flight Instructor.
- have FAA pilot certification and be legally qualified for an entrylevel position in the commercial aviation industry.
- have knowledge and skills to serve in responsible positions in a corporate aviation department.
- be skilled in the use of multiple industry libraries and data base systems and be skilled as a researcher in the aviation industry.
- be skilled in the use of various systems of measure and conversion; be skilled in the use of performance tables and graphs; plot data manually and electronically to determine performance and trends.
- skillfully access a multitude of library accessible resources for applications information and topical research projects; be skilled in the use of local and national libraries and databases.
- accurately use systems of measure, skillfully perform unit conversions, and be skilled in computational analysis defining airplane operational performance; accurately use performance tables, charts and graphs; use interpolation to derive implied values; and be skilled in the use of aviation specific manual and electronic calculators to determine time, rate and trends.

Graduates may also transfer to a four-year university preparing for a professional degree.

**Employment Trends** Statewide Openings - 27 pilots annually, projected through 2018

An article at pilotjobs.com predicts a substantial shortage of pilots in the near future due to multiple contributing factors: a large increase in mandatory retirements, rapid expansion of foreign airlines, projected 5% growth in US airlines (according to the FAA, Boeing, and Airbus), and a substantially reduced number of new Commercial and Airline Transport Pilots graduating from flight schools. Boeing predicts a shortage of as many as 6,000 pilots nationwide within the next few years.

The U.S. Bureau of Labor Statistics projects 10,620 annual openings for commercial pilots, aircraft pilots and flight engineers, and airline pilots and copilots through 2018.

**Wages** Flight instructors earn from \$15,000.45,000. Entry-level commercial pilots earn \$25,000 through their probationary period. Air carrier line pilots earn \$45,000.250,000 annually.

**Admissions Information** An information packet may be requested by calling 541.463.4195, vising the Flight Technology Department at 28715 Old Airport Road, Eugene OR 97402, or visiting our website at *lanecc.edu/flight*.

### Costs in Addition to Tuition (estimates)\*

Certificates, flight lab and instruction fees,

including ground charges	up to \$45,000
FAA Knowledge Exams (five required for degree)	\$750
FAA Physical	\$250
Books	\$1800
Supplies	\$300
Total	\$48,100

\* Subject to change without notice.

**Program Accreditation** The Federal Aviation Administration approves all FAA certification courses.

**Licensing and Other Certification Exams Required** All FAA certificates require certification testing.

**Cooperative Education (Co-op)** Co-op offers students college credit and a grade for on-the-job 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. Contact Marv Clemons, Flight Technology Co-op Coordinator, Bldg. 8, Rm. 111, 541.463.3158, *clemonsm@lanecc.edu*.

**Note** For FT 239 Professional Pilot Flight Lab a student must have a total of 39 Flight Lab credits to fulfill the AAS Degree requirement.

**Prerequisites** An applicant should complete the following courses prior to program entry.

Arts and Letters requirement <sup>R</sup>	3
Human Relations requirement <sup>R</sup>	3
WR 121 Composition: Introduction to Academic Writing	
or higher writing <sup>*,D</sup>	4

Total Credits 10

# **Flight Technology**

#### Two-Year Associate of Applied Science Degree

## **Flight Technology**

First Year FT 102 General Aviation Careers <sup>D</sup> FT 103 Aircraft Development <sup>*,D,G</sup> FT 130 Primary Flight Briefing <sup>*,D,G</sup> FT 239 Professional Pilot Flight Lab <sup>*,D</sup> FT 250 Private Pilot Ground School <sup>D,G</sup>	Fall 1 4 3 6 5
Total Credits	19
	Winter
FT 239 Professional Pilot Flight Lab *,D	6
GS 109 Meteorology <sup>D,G</sup> MTH 095 Intermediate Algebra or higher	5
mathematics *,D	5

Total Credits 16

	Spring
FT 113 Aviation Science <sup>D,G</sup>	4
FT 115 Aircraft Structures and Systems <sup>D,G</sup>	3
FT 239 Professional Pilot Flight Lab *,D	6
FT 251 Commercial Pilot Ground School <sup>D,G</sup>	5

Total Credits

18

#### Second Year Fall CS 120 Concepts of Computing <sup>S</sup> or higher computer science 4 FT 239 Professional Pilot Flight Lab \*,D ..... 7 FT 252 Instrument Ground School D,G ..... 5 16 **Total Credits** Winter FT 239 Professional Pilot Flight Lab \*,D..... 7 FT 254 Aerodynamics <sup>D,G</sup> ..... 3 FT 256 Flight Instructor–Airplane Ground School <sup>D,G</sup>...... 3 FT 280 Co-op Ed: Flight Technology (optional) D,G..... (3) Physical Education/Health requirement <sup>D, R,1</sup>..... 3 **Total Credits** 16-19 Spring BA 254 General Aviation Management <sup>D,G</sup>..... 3 FT 228 Multiengine Ground School <sup>D,G</sup>..... 2 FT 239 Professional Pilot Flight Lab \*,D ..... 7 FT 255 Fundamentals and Flight Instructor-Instrument Ground School D,G ..... 3 **Total Credits** 15 **Additional Elective Ratings:** FT 239 ATP ..... 1-6 credits FT 239 CFIA ..... 1-6 credits FT 239 CFII..... 1-6 credits FT 239 MEI ..... 1-4 credits

1 PE Activity requirement credits must be taken in at least two terms to satisfy degree requirement.

FT 239 Multiengine..... 1-3 credits

an equal opportunity/affirmative action institution committed to cultural diversity and compliance with the Americans with Disabilities Act 6/11

Standard footnotes:

\* Prerequisite required

- 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

R Required for AAS degree