

AERONAUTICS AVIATION MAINTENANCE

Curriculum Guide for Academic Year 2011-2012

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Students planning to **transfer** to a four-year college or university should refer to the ASSIST web site at www.assist.org and **consult a counselor** before beginning a program of study. To meet with a counselor call 562-938-4561 for the LAC, or (562) 938-3920 for PCC. Students may also wish to visit the Transfer Center on either campus.

Program Admission Requirements

Pursuant to Title 14 CFR Part § 65.7(a) (2) Mechanics Eligibility Requirements: General Applicants (students) must be able to read, write, speak, and understand the English language. For more information, contact the Aviation Maintenance program at 562-938-3069.

Students should enter AVMNT 201 or 202. Students may enter at the beginning or mid-point of the fall semester, or at the beginning or mid-point of the spring semester. By remaining continuously enrolled, students may complete the required 2,080 hours of instruction for the Airframe and Powerplant Mechanic Certificate of Achievement in sixty-four weeks of class time. Upon completion of the program, students must pass an Exit Examination comprised of General, Airframe and Powerplant subject areas with a minimum passing score of 80%. Students must also satisfy the FAA "Aircraft Taxi" requirement or hold a FAA Private Pilot Certificate.

Transfer students from accredited Aviation Maintenance Technician Schools or students with substantial industry experience should consult with the Aviation Maintenance Department Head prior to enrolling.

Students interested in an LBCC Certificate of Achievement in Aviation Maintenance may contact the department at 562-938-3069, or visit the website

Program of study leading to: Associate in Science (A.S.) Degree

<u>REQUIRED COURSES</u>		UNITS	In Progress	Completed Grade
± AVMNT 201	General Aircraft Science	8		
± AVMNT 202	General Aircraft Maintenance	8		
± AVMNT 203	Airframe Structures	8		
± AVMNT 204	Airframe Components	8		
± AVMNT 205	Airframe Systems	8		
± AVMNT 206	Powerplant Systems	8		
± AVMNT 207	Powerplant/Reciprocating Engines	8		
± AVMNT 208	Powerplant/Turbine Engines	8		
TOTAL UNITS		64		

Associate Degree requirements continue on the following page.

Associate Degree requirements continued from previous page.

For graduation with an **Associate in Science (A.S.) Degree with a major in Aviation Maintenance:**

1. **Units:** Complete a minimum of 83 units, distributed as follows:

Aviation Maintenance Major:	64 units
<u>General Education/A.S.^</u>	19 units [^]
TOTAL:	83 units

[^] The **Communication and Analytical Thinking** and the **Natural Sciences** requirements, and the **Mathematics Proficiency** are fulfilled when the 64 units of the Aviation Maintenance program have been successfully completed, thus reducing the total units of required general education by six units.

2. **Scholarship:** Maintain an **overall grade point average (GPA) of 2.0** ("C" average) based on all accredited college work applied to the degree, no matter where completed. For this **field of concentration, complete each course above with a grade of "C" or better**, or "P" if course is graded on a P/NP basis.
3. **Residence for the Degree:** Complete at least 42 units of the required 83 in residence at LBCC, or complete in residence at LBCC at least 20 units within the last 30 units of work applied to the degree.
4. **Residence for the Field of Concentration:** Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 32 units** of the required 64 must be **completed at Long Beach City College**. The Aviation Maintenance Program does not award credit by examination.
5. **General Education and Proficiency Requirements:** Complete the required A.A./A.S. General Education and Proficiency requirements*, otherwise known as "Plan A". For Plan A requirements, refer to the general catalog or view it online at <http://osca.lbcc.edu> .
6. Complete and submit the degree application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/> . Refer to the Schedule of Classes (<http://schedule.lbcc.edu>) and click the "Important Dates" link to view the actual deadline for each semester.

*The requirements for general education/proficiency and the field of concentration (major) need to be from the same catalog year. This catalog year may be any year between the year of initial enrollment to the present, provided continuous enrollment is maintained throughout. See the catalog for definition of "continuous enrollment".

Unless otherwise noted, "double-counting" is not allowed. That is, one course may not be used to fulfill both a field of concentration requirement and to fulfill a general education requirement.

**Program of study leading to:
Certificate of Achievement**

Long Beach City College is an FAA certified Aviation Maintenance Technician School (FAA Certificate Number CR9T070R). Upon successful completion of AVMNT courses as specified under Title 14 CFR Part 147, AC-65-2C and the FAA approved curriculum, students meet all LBCC requirements to obtain the college Certificate of Achievement. Students interested in obtaining the Certificate of Achievement must first satisfy the requirements for the FAA Certification of Completion (awarded by the Aviation Maintenance Program).

REQUIRED COURSES—Complete the 64 units of required courses as listed in the Associate Degree requirements box on the first page.

<u>REQUIRED COURSES</u>	TOTAL UNITS	64	In Progress	Completed

For graduation with a **Aviation Maintenance Certificate of Achievement:**

1. Complete each of the **REQUIRED COURSES** listed above with a **minimum grade of "C"**.
2. Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 32 units** of the required 64 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
3. Complete and submit the certificate application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/> . Refer to the Schedule of Classes (<http://schedule.lbcc.edu>) and click the "Important Dates" link to view the actual deadline for each semester.

For both the **Associate in Arts** and the **Certificate of Achievement**, the following courses are recommended, **BUT ARE NOT REQUIRED** to earn either.

RECOMMENDED but not required courses:

AVMNT 401AD	Aircraft Mechanics Test Preparation	4		
AVMNT 601	Aviation Refresher Training	0		

Career Opportunities

Program Graduates fulfill the Federal requirements to take the FAA certification exams. Upon successful completion of these examinations, applicants may obtain Airframe and/or Powerplant (A&P) Mechanic Certificates. Excellent career opportunities exist in the fields of general, corporate, military, and commercial aviation.

Program Mission and Outcomes

The mission of the Long Beach City College Aviation Maintenance Technician School is to provide academic instruction and technical training, as specified within the FAA approved training curriculum and in accordance with Title 14 CFR Part 147 of the Federal Aviation Regulations. Training and instruction will be conducted pursuant to the Aviation Mechanic certification requirements, as specified in the FAA Practical Test Standards for students seeking federal certification under Title 14 CFR Part 65 of the Federal Aviation Regulations as Airframe and Powerplant Mechanics.

Outcomes:

- Synthesize and Demonstrate TITLE 14 CFR PART 147 APPENDIX B: GENERAL CURRICULUM (identify; select; calculate; measure; inspect).
- Synthesize and Demonstrate TITLE 14 CFR PART 147 APPENDIX C I. & II. AIRFRAME CURRICULUM (inspect; check; service; troubleshoot; repair).
- Synthesize and Demonstrate TITLE 14 CFR PART 147 APPENDIX D I. & II. POWERPLANT CURRICULUM (overhaul; service; troubleshoot; repair)

Legend

± These courses are approved under TITLE 14 CFR PART 147 of the Federal Aviation Regulations.