

# AERONAUTICS PROGRAM AVIATION MAINTENANCE (Airframe & Powerplant Mechanic)

## LONG BEACH CITY COLLEGE Curriculum Guide for Academic Year 2009-2010

Associate in Science /Certificate of Achievement / FAA Certificate of Completion <sup>☒</sup>

*ALL INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTICE.*

*For possible updates to this guide please refer to the following website: <http://oscs.lbcc.edu>*

### 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.

UPON SUCCESSFUL COMPLETION OF THE LONG BEACH CITY COLLEGE AVIATION MAINTENANCE TECHNICIAN PROGRAM, THE GRADUATE WILL BE ABLE TO:

1. Exhibit sufficient knowledge to maintain, inspect, check, troubleshoot, service, and repair Airframe Systems & Components.
2. Exhibit sufficient knowledge to maintain, inspect, check, troubleshoot, service, and repair Powerplant Systems & Components.
3. Demonstrate the ability to perform the manipulative skills necessary to conduct Airframe maintenance operations.
4. Demonstrate the ability to perform the manipulative skills necessary to conduct Powerplant maintenance operations.

### DEPARTMENTAL 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 program information call **(562) 938-3069** or go to [www.LBCCAVIATION.COM](http://www.LBCCAVIATION.COM)

<b>REQUIRED COURSES</b>	<b>UNITS</b>	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		
<b>TOTAL UNITS</b>	<b>64</b>		

### LEGEND

- ± **All of the above listed courses are approved under TITLE 14 CFR PART 147 of the Federal Aviation Regulations.**
- ☒ **The FAA Certificate of Completion is issued by the Aviation Department.**

**RECOMMENDED but not required**

AVMNT 401AD Aircraft Mechanics License Prep.

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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.

**GRADUATION REQUIREMENTS**

**For CERTIFICATE OF ACHIEVEMENT and  FAA CERTIFICATE OF COMPLETION:**

Students interested in obtaining the Certificate of Accomplishment must first satisfy the requirements for the FAA Certificate of Completion. These certificates are issued upon completion of a two year program in occupational/technical areas at Long Beach City College which provides training in job skills and employment opportunities. Applicants must complete the required units with a minimum cumulative grade point average of 2.0 ("C" average), and pass all FAA subject area examinations with a minimum passing score of 70% as well as complete the requisite hours of instruction as specified under the approved curriculum. Application for the certificate(s) shall be submitted during the final quarter of program course work. Fifty per cent (50%) or more of the unit requirements for this field of concentration must be completed in residence. It is not the policy of the Long Beach City College Aviation Maintenance Technician School to grant credit by examination.

**For ASSOCIATE IN SCIENCE DEGREE:**

The Associate Degree is a two-year college degree awarded by Long Beach City College which includes general education courses and a major. In addition to the courses required for the Certificate of Achievement, complete the A.S. degree requirements specified in the catalog. The requirements for general education/proficiency and the field of concentration 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"). Fifty per cent (50%) or more of the unit requirements for this field of concentration must be completed in residence (credit earned by exam, where applicable, may be included).

In general, "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.

The **Communication/Analytical Thinking (Math)** and the **Natural Science** requirements, and the **Mathematics proficiency** are fulfilled when the 64 units of Aviation Maintenance have been successfully completed, thus reducing the total units of required general education by six units.

Long Beach City College is a 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 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, student 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. Students interested in a LBCC Certificate of Accomplishment in Aviation Maintenance may contact the department at (562) 938-3069 or go to the website [osca.lbcc.edu](http://osca.lbcc.edu) or go to [LBCCAVIATION.COM](http://LBCCAVIATION.COM) for current information.

***Students interested in transferring to a university to continue their study in this field of concentration or other majors are strongly advised to consult an LBCC academic counselor and refer to the ASSIST website ([www.assist.org](http://www.assist.org)) for major preparation information. Counselors can clarify the different major and admissions requirements at a university. Students may visit the Student Success/Transfer Services Center to access further educational resources. If you need to set up an appointment to see a counselor or schedule the SOAR Test, call LAC (562)938-4561 or PCC (562)938-3920.***