AVIATION MAINTENANCE  
(Airframe/Powerplant Mechanic)  
Career Certificate and/or Associate in Science

CAREER OPPORTUNITIES

Students prepare to take FAA Airframe and Powerplant (A & P) Mechanics License Test. With the A & P Mechanic’s license, men and women find excellent career opportunities in general, commercial, and military aviation.

UPON COMPLETION OF THE A & P MECHANIC PROGRAM, THE STUDENT WILL BE ABLE TO:

1. Change aircraft equipment where weight changes are involved, accurately computing weight and balance data to the second decimal place.
2. Compute electrical problems accurately to the first decimal place.
3. Complete Form 337, Repair and Alteration Forms, as outlined in A.C. 43.13-1 Manual.
4. Troubleshoot and make repairs by reference to aircraft blueprints without assistance from other persons.
6. Complete an "Airworthy" sheet metal repair using layout, forming, bending, and riveting procedures specified by Federal Aviation Regulation 43 & A. C. 43. 13-1
7. Inspect, ground service, and taxi single-engine aircraft.
8. Properly check and adjust control cable tensions, safety turn barrels, and control surface travel.
9. Troubleshoot aircraft electrical systems.
10. Troubleshoot and repair hydraulic and pneumatic power systems and components.
11. Troubleshoot aircraft instruments, communications, and navigation systems, cabin environmental ice and rain control systems and fuel systems.
12. Troubleshoot, overhaul, and repair aircraft engines, systems, and components.

DEPARTMENTAL ADMISSION REQUIREMENTS

None. For more departmental information call (562) 938-3069 or 938-3054.

REQUIRED COURSE*  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>UNITS</th>
</tr>
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<tbody>
<tr>
<td>AVMNT 211</td>
<td>General Aviation Maintenance Tech.</td>
<td>7</td>
</tr>
<tr>
<td>AVMNT 241</td>
<td>Airframe Structures</td>
<td>8</td>
</tr>
<tr>
<td>AVMNT 242</td>
<td>Aircraft Systems/Components 1</td>
<td>8</td>
</tr>
<tr>
<td>AVMNT 243</td>
<td>Aircraft Systems/Components 2</td>
<td>8</td>
</tr>
<tr>
<td>AVMNT 251</td>
<td>Powerplant Theory &amp; Maintenance</td>
<td>8</td>
</tr>
<tr>
<td>AVMNT 252</td>
<td>Powerplant Systems/Components 1</td>
<td>8</td>
</tr>
<tr>
<td>AVMNT 253</td>
<td>Powerplant Systems/Components 2</td>
<td>8</td>
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<tr>
<td>TOTAL UNITS</td>
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<td>55</td>
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</table>

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

Students with prior training at the Aviation Maintenance Technician School or with substantial experience should consult with one of the Aero Maintenance instructors or the Department Head before enrolling.

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS

Printed June, 2005 * No Changes Since 1995-96   Catalog Year 2005-2006   LBCC - 21
For **CAREER CERTIFICATE**:  
The Career Certificate is a one to two year program in occupational/technical areas at Long Beach City College which provides training in job skills and employment opportunities. Complete the required units with a minimum cumulative grade point average of 2.0 ("C" average), and in all FAA subject areas earn 70% or better. Submit a completed application for the certificate during the final quarter of course work; the Aviation Maintenance Department Head will then review your FAA file. 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).

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 Career Certificate, 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 55 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 certified Aviation Maintenance Technician school, FAA Certificate number CR9TO7OR. The required courses for the Career Certificate meet all the curriculum requirements established by FAA documents FAR 147 and AC-65-2C.

Students should enter General Aviation Maintenance Technology 211. 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 1900 hours of instruction for the Airframe and Powerplant Career Certificate in sixty-three weeks of class time.

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) for major preparation information. The counseling staff and the Student Success & Transfer Services Center can clarify the different major and admissions requirements at a university.

To set up an appointment to see a counselor or schedule the SOAR Test, call LAC (562)938-4561 or PCC (562)938-3920.