Aeronautics Department

DEGREES:
- Airframe Maintenance Technician (AS)
- Powerplant Maintenance Technician (AS)
- Airframe & Powerplant Maintenance Technician (AS)

CERTIFICATES OF ACHIEVEMENT:
- Airframe Maintenance Technician
- Powerplant Maintenance Technician
- Airframe & Powerplant Maintenance Technician

COURSES:
- AERO (Aeronautics)

CONTACT INFORMATION:
- School of Applied Technology and Business
  - Building: 500  Room 509
  - Phone Number: (707) 864-7229
  - Fax Number: (707) 864-7190

- Dean: Lisa Neeley
- Administrative Assistant: Jill Crompton
- Faculty Contact: Brooks "Rusty" Mayes
  Kevin Spoelstra

ARE YOU THE KIND OF PERSON WHO...
- ...desires to work hands-on with objects, machines, tools, plants, or animals?
- ...enjoys work and play outside, including use your physical or athletic abilities?
- ...likes to follow directions to organize, plan and complete a project or task?
- ...is interested in attaining employment as soon as possible?
Airframe and Powerplant Maintenance Technician
Certificates of Achievement and Associates in Science

Program Description
Practical and theoretical knowledge in basic maintenance techniques, plus the special requirements of airframe, powerplant, or airframe & powerplant work. Upon satisfactory completion of the required courses, the student is eligible to take the Federal Aviation Administration written oral and practical examination for airframe, powerplant, or airframe and powerplant license.

A focused Airframe or Powerplant Certificate of Achievement can be obtained upon completion of the corresponding 41-unit major. A focused Airframe or Powerplant Associate in Science can be obtained upon completion of the corresponding 41-unit major, General Education, and electives as needed to complete a minimum of 60 units.

The combination Airframe & Powerplant Maintenance Technician Certificate of Achievement can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major. The combination Associate in Science can be obtained upon completion of the 62-unit Airframe and Powerplant Maintenance major and General Education.

The Federal Aviation administration (FAA) requires 1150 hours (four full semesters) of instruction to complete either the Airframe Maintenance curriculum or Powerplant Maintenance Curriculum (An additional 750 hours, two full semesters for the Combination of Airframe and Powerplant Maintenance Curriculum). All courses in the major must be completed with a minimum grade of C or a P if the course is taken on a Pass/No Pass basis.

Program Outcomes
Students who complete the Airframe Maintenance Technician, Powerplant Maintenance Technician or Airframe & Powerplant Maintenance Technician Certificate of Achievement or Associate in Science will be able to:

1. Demonstrate proficient, entry-level aviation maintenance skills in airframe, powerplant, or airframe and powerplant with emphasis on aircraft engines, aircraft structures, and aircraft systems.

2. Have a working knowledge to inspect, maintain, service and repair aircraft electrical, engine (piston and turbine), airframe structure, flight control, hydraulic, pneumatic, fuel, navigation and instrument systems and other aircraft components specified by Federal Aviation Regulation Part 147.

3. Obtain the knowledge and skills to pass oral, practical and written Federal Aviation Administration (FAA) examination in general and airframe/powerplant subjects.

AIRFRAME REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERO 102 Aviation Maintenance Technician - Airframe Structures</td>
<td>10</td>
</tr>
<tr>
<td>AERO 105 Aviation Maintenance Technician - Airframe Systems</td>
<td>10</td>
</tr>
<tr>
<td>AERO 118 Aviation Maintenance Technician - FAA Airframe Test Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

Required Major Total units = 41

POWERPLANT REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AERO 106 Aviation Maintenance Technician - Powerplant Reciprocating Engines</td>
<td>10</td>
</tr>
<tr>
<td>AERO 107 Aviation Maintenance Technician - Powerplant Turbine Engines</td>
<td>10</td>
</tr>
<tr>
<td>AERO 119 Aviation Maintenance Technician - FAA Powerplant Test Preparation</td>
<td>1</td>
</tr>
</tbody>
</table>

General Required Courses = 20

Required Major Total units = 41

GENERAL REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>AERO 055 Aviation Maintenance Technician - General Aircraft Subjects</td>
<td>10</td>
</tr>
<tr>
<td>AERO 103 Aviation Maintenance Technician - Basic Electricity and Hydraulics</td>
<td>10</td>
</tr>
</tbody>
</table>

AIRFRAME AND POWERPLANT REQUIRED COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete all courses</td>
<td>62</td>
</tr>
</tbody>
</table>

These programs are Gainful Employment Programs. For additional information, please visit http://www.solano.edu/gainful_employment/ and select “Aeronautics Airframe Maintenance Technician,” or “Aeronautics Airframe & Powerplant Maintenance Technician.”