

AERO - AERONAUTICS MAINTENANCE TECHNOLOGY

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Mike Willett

PROGRAM MISSION: The Aeronautics Maintenance and Technology program's mission is to:

- Provide students with the opportunity to gain the documented knowledge and experience to qualify for certification as aircraft mechanics as required by the Code of Federal Regulations Title 14 Part 65 and in the manner prescribed by CFR Title 14 Part 147, as approved by the Honolulu Flight Standards District Office.
- Enable students to attain their personal educational goals by becoming highly qualified aviation maintenance technicians, meeting the needs of the aviation industry and thereby promoting safety in aviation.
- Provide specialized training as necessary for prospective aircraft technicians and industry.

PROGRAM DESCRIPTION: The Aeronautics Maintenance Department is an approved aviation maintenance technician training facility operating under Federal Aviation Administration Air Agency Certificate No. DI9T087R with Airframe, Powerplant, and combined Airframe and Powerplant ratings. It is the only such school in the Pacific Basin. Students enrolling in the Aeronautics program have three choices as outlined below.

- **CERTIFICATE OF ACHIEVEMENT IN AVIATION MAINTENANCE TECHNICIAN CERTIFICATION PROGRAM:** This program consists of the General Maintenance curriculum of 500 hours, the Airframe Maintenance curriculum of 750 hours, and the Powerplant Maintenance curriculum of 750 hours which meets the FAR Part 147 minimum required total of 1900 hours of theory and laboratory instruction in four (4) semesters and an additional semester of General Education courses. A Certificate of Achievement will be awarded to students completing the Aviation Maintenance Technician Certification program.
- **ASSOCIATE IN SCIENCE DEGREE IN AERONAUTICS MAINTENANCE TECHNOLOGY** is awarded to students who complete the additional General Education requirements as well as the General, Airframe, and Powerplant Maintenance curricula as outlined under the Certificate program.
- **TRANSFER OPTION TO PREPARE FOR THE COMPLETION OF THE AVIATION SYSTEMS MANAGEMENT DEGREE** in a 4-year program. Contact Brian Isaacson for details.

Students will not be allowed to enter the Airframe or Powerplant courses without first completing the requirements of the General Maintenance course. Either or both the Airframe and/or Powerplant courses should be completed in order.

Classes may be offered as both a day program and a night program. Students enrolling in either program will be committed to that program and will not be allowed to switch to the other without prior approval from the Aeronautics Maintenance Technology Department. Check the Honolulu CC website (www.honolulu.hawaii.edu) Class Availability link for day or night program availability.

Successful completion of each FAR Part 147 approved course requires at least a "C" grade in each unit, with all absences made up or the course must be repeated. Completion of the college requirements for the Certificate of Achievement, Associate in Science Aeronautics Maintenance Technology Degree, or the transfer requirements of the Aviation Systems Management Degree does not necessarily qualify a student to be eligible to take the FAA examinations for certification. No more than three days may be missed in each FAR Part 147 approved course or the course must be repeated.

As part of the preparation for working in the industry, during the last airframe class, students will be expected to taxi an aircraft and communicate with ground control under the direction of a commercial flight school flight instructor at a flight school of their choice for an approximate cost of \$80.



Health and physical requirements vary with employers in the aviation maintenance industry. Students with special needs are encouraged to discuss their specific career goals with faculty during advising. Prospective students with military aviation maintenance experience should refer to Federal Aviation Regulation 65.77 and the Flight Standards District Office for possible certification alternatives.

Upon successful completion of the General and either the Airframe or the Powerplant curricula, students are eligible to take the FAA written examination for the appropriate Airframe or Powerplant rating without waiting to complete the program. Upon passing the written exam(s), the student is eligible to take the oral and practical examinations for Federal certification as an Aviation Maintenance Technician (Mechanic: Airframe, Powerplant, or A&P as appropriate).

PROGRAM STUDENT LEARNING OUTCOMES (SLO): Upon successful completion of the AERO program, students will be able to:

- Satisfactorily pass the Federal Aviation Administration (FAA) knowledge, oral, practical and written examinations in General, Airframe, and Powerplant subjects
- Obtain FAA general mechanic, airframe and powerplant certifications
- Demonstrate a working knowledge and mechanical ability 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
- Identify, install, inspect, fabricate and repair aircraft sheet metal and synthetic material structures
- Maintain and repair any part in any aircraft system of any rotorcraft, light aircraft, air carrier aircraft, glider, or balloon within the regulatory limits imposed by the FAA certification, without error, to ensure the safety of the flying public
- Display proper behavior reflecting satisfactory work habits and ethics to fulfill program requirements and confidence to prepare for employment

PROGRAM REQUIREMENTS:

Program Prerequisites:

*Placement in ENG 100, "C" or higher in MATH 25, OR Placement in MATH 103 **

Recommended Preparation before enrolling in the AERO 130-137 series: <i>ICS 100</i>		Certificate of Achievement Credits	Associate in Science Degree Credits
First Semester			
<i>AERO 130</i>	<i>General Aircraft Maintenance I</i>	7	7
<i>AERO 131</i>	<i>Advanced Gen. Aircraft Maintenance II</i>	7	7
		14	14
Second Semester			
<i>AERO 132</i>	<i>Powerplant Maintenance I</i>	7	7
<i>AERO 133</i>	<i>Airframe Maintenance I</i>	7	7
		14	14
Third Semester			
<i>AERO 134</i>	<i>Powerplant Maintenance II</i>	7	7
<i>AERO 135</i>	<i>Airframe Maintenance II</i>	7	7
		14	14
Fourth Semester			
<i>AERO 136</i>	<i>Powerplant Maintenance III</i>	7	7
<i>AERO 137</i>	<i>Airframe Maintenance III</i>	7	7
		14	14

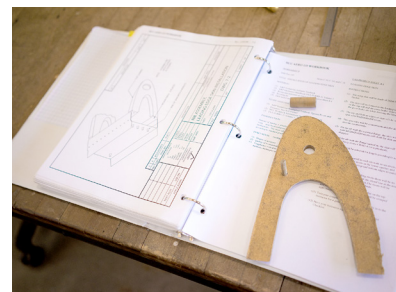
Fifth Semester

ENG 100	Composition I	3
SP 151	Personal and Public Speech	3
MATH 103, 135, 140, 205, 206, 231, or 232	(See COURSE DESCRIPTIONS)	3-4
PHYS 100-100L, 151-151L, 170-170L, or 272-272L	(See COURSE DESCRIPTIONS)	4-5
General Education Requirement – Social Science **		3
		16-18
Minimum Credits Required		56 72

* If the MATH program prerequisite is met by Placement Test scores, students will need to complete MATH 103 or appropriate substitute in order to meet the requirements for the AS degree.

** General Education Requirements for the AS program are listed under *DEGREES AND CERTIFICATES*.

Note: Students must meet the minimum proficiency standards in Communication & Computation established by Honolulu CC to qualify for the Certificate of Achievement.



The following 4-year degree programs accept AERO 130–137 for advanced standing credit towards a BS in Aeronautics Maintenance Management or other related degrees: University of Central Missouri, San Jose State University, Embry-Riddle Aeronautical University, University of North Dakota, Middle Tennessee State University, Parks College of St. Louis University, Purdue University, Southern Illinois University at Carbondale, Central Washington University, Kent State University, Lewis University, Metropolitan State College of Denver, and Utah State University. A complete listing can be obtained through the University Aviation Association or the FAA.

COST OF TEXTBOOKS/SUPPLIES: The cost for textbooks, uniforms, and a required tool kit is approximately \$2500.

ADVISORY COMMITTEE:

- Thomas Anusewicz, Oke'e Aviation
- Bryan Asari, Manager Support Shop, Hawaiian Airlines
- Hank Bruckner, General Aviation Officer, State of HI, DOT
- Frank Fenlon, Jr. Hawaiian Airlines, Maintenance Programs Engr.
- George Hanzawa, George's Aviation Services
- Ron Lenhart, Aloha Air Cargo
- Rodney Luckenotte, Manager Base Maintenance, Hawaiian Airlines
- Porter Mackenzie, Station Mgr., Go! Airlines
- Scott Mayural, Life Flight Hawai'i
- Dennis McClain, Manager, Maintenance and Engineering, Hawaiian Airlines
- Wendell R. Nelson, Aviation Consultant
- Pat Rosa, Aloha Air Cargo
- Lorin Sardinha, Sr. Director of Maintenance, Hawaiian Airlines
- Richard Schumann, President, Makani Kai Helicopters
- Raja Segaran, Trans Air/Interisland Airways
- Edgar K. Silva, Manager, Aircraft Maintenance
- George Tanoue, Island Air
- Beau Tatsumura, Aloha Air Cargo
- Lia Young, President, Goldwings Supply, Inc.