

Course number and Title

AVSC 1014 Aviation Airframe

Catalog Description:

Theory and practical application of servicing, trouble shooting, inspection, and repair of fixed wing aircraft. Topics addressed include avionics, landing gear instrument systems, hydraulics/pneumatics, aircraft covering and finishes. It addresses one section of three to qualify for the FAA Airframe and Powerplant Technician Certificate.

Prerequisite:

AVSC 1010

Credit hours/ Contact hours/ Load hours:

14/14/14 (Taught by contract instructors)

Target Audience & Transferability:

Designed for students majoring in either an Associate of Applied Science (AAS) Aviation Technology, or Associate of Science (Maintenance Management). Course lays the foundations for student understanding of basic aircraft maintenance to allow progress towards earning the FAA Airframe and Powerplant License. Can be used towards either a terminal or transfer degree. Will transfer to Henderson State University, and several other out-of-state institutions offering Bachelor's Aviation Programs.

Common Objectives/ Student Outcomes:

Students completing this course will be able to:

1. Perform maintenance service on reciprocating, turboprop, and jet turbine aircraft airframe structures and their associated accessories.
2. Demonstrate a knowledge of appropriate quality control mechanisms and FAA Regulations and Directives.

Required Text(s):

A & P Technician Series Jeppesen Sanderson, Inc., 1998

Optional Text(s):

Topics:

- I. Intro to Airframe, Welding, Assembly & Rigging (A100 to A102)
- II. Aircraft Skin, Sheet Metal, & Non-metallic Structures (A103 & A104).
- III. Electrical, Ice & Rain Control, Fire Protection, & Instruments (A105 to A107).
- IV. Avionics, Cabin Pressurization, Hydraulics, & Pneumatics (A108 to A110).
- V. Landing Gear, Fuel Systems, Inspection, and Review (A111 to A113).

Required Methods of Instruction:

Classes are taught off-campus in a full time day or night format, requiring maximum attendance.

Required Forms of Assessment:

Exams will be performed as required to insure progress towards completion. Student must take and pass FAA test for award of the FAA Airframe Technician License.

Resources:

Arkansas Aviation Technologies Center resource center at Drake Field.