

Course number and Title

AVSC 1010 Aviation Maintenance (Basic)

Catalog Description:

Theory and practical application of general maintenance of aircraft addressing basic physics, weight and balance, basic electricity, materials and processes, forms and records. This course is taught off campus by Arkansas Aviation Technologies Center. It addresses one section of three to qualify for the FAA Airframe and Powerplant Certificate

Prerequisite:

Credit hours/ Contact hours/ Load hours:

10/10/10 (Taught off-campus 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 Licensure. 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. Have a working knowledge of the principles of math and physics referring directly to aircraft operating parameters.
2. Demonstrate a thorough understanding of weight and balance, electricity, aircraft fluids, and other aerospace materials and processes.
3. Safely perform basic ground servicing.
4. Understand required forms, record keeping, and computer technologies.

Required Text(s):

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

Optional Text(s):

Topics:

- I. Intro to Aviation, Math & Physics (G100 to G102).
- II. Aircraft Specifications on Drawings, Weight & Balance, Fluids & Electricity (G103 to G106).
- III. Aerospace materials, Corrosion Control & Ground Operations (G107 to G109).
- IV. Forms, Records, & Intro to Computer Technology (G110 & G111)

Required Methods of Instruction:

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

Required Forms of Assessment:

Periodic exams will be performed by contract instructors as required to insure progress. Students must pass this course to begin specific training in either Airframe or Powerplant classes.

Resources:

Arkansas Aviation Technologies Center resource center at Drake Field.