

Prepared by the Department of Natural Sciences & Applied Technology

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Effective: Fall 2018

1. Course Number: AMT201

Course Title: Aviation Maintenance Technology (AMT): Airframe Module 1

2. Description: AMT Airframe Module 1 for the Federal Aviation Administration (FAA) is required by Title 14 of the Code of Federal Regulations (14 CFR) Advisory Circular Part 147-3B. AMT Airframe Module 1 introduces students to the applications of wood structures, aircraft coverings, aircraft finishes, sheet metal and non-metallic structures, welding, assembly and rigging, and landing gear systems.

3. Student Learning Outcomes:

Upon successful completion of this course, students are able to do the following.

- Service and repair wood aircraft structures
- Inspect, test and repair coverings
- Apply finish materials, trim, letters and touch up paint
- Inspect and repair sheet metal and non-metallic structures
- Solder, braze, and gas weld various aircraft materials
- Assemble, balance, and rig various aircraft components and flight control surfaces
- Inspect, check, service and repair landing gear and related systems.

4. Credits: 9 credits

5. Satisfies General Education Requirement: No

6. Prerequisite: Grade of C or higher in AMT101 (AMT: General Module I) and AMT102 (AMT: General Module II)

7. Semesters Offered: Varies

8. Suggested General Guidelines for Evaluation: The course grade will be based on class work, laboratory, quizzes, tests, projects, and a final exam. Specific course grading procedures and make-up policies are detailed in a Cape Cod Community College Aviation Manual and an instructor course outline.

9. General Topical Outline:

- Wood structures
- Aircraft coverings
- Aircraft finishes
- Sheet metal and non-metallic structures
- Welding
- Assembly and rigging
- Landing gear systems

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