

Prepared by the Department of Natural Sciences & Applied Technology

Date of Departmental Approval: March 18, 2018

Date Approved by Curriculum and Programs: April 4, 2018

Effective: Fall 2018

1. **Course Number: AMT202**
Course Title: Aviation Maintenance Technology (AMT): Airframe Module 2
2. **Description:** AMT Airframe Module 2 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 2 introduces students to the applications of hydraulic and pneumatic power systems, cabin atmosphere and control systems, aircraft instrument systems, communication and navigation systems, aircraft fuel systems, aircraft electrical systems, position and warning systems, ice and rain control systems, fire protection systems, and airframe inspection.
3. **Student Learning Outcomes:**
Upon successful completion of this course, students are able to do the following.
 - Inspect, check, service and repair hydraulic and pneumatic systems
 - Inspect, check, service and repair heating, air-conditioning and pressurization systems
 - Inspect, check, service and repair electronic flight instruments
 - Inspect, check, service and repair communication and navigation systems
 - Inspect, check, service and repair Aircraft fuel, position and warning, and Ice and rain control systems
 - Inspect, check, service and repair fire protection systems
 - Perform airframe conformity and airworthiness inspections.
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:**
 - Hydraulic and pneumatic power systems
 - Cabin atmosphere and control systems
 - Aircraft instrument systems
 - Communication and navigation systems
 - Aircraft fuel systems
 - Aircraft electrical systems
 - Position and warning systems
 - Ice and rain control systems
 - Fire protection systems
 - Airframe inspection