

**Columbus State Community College
Engineering and Transportation Technologies
Aviation Maintenance Technology**

COURSE: AMT 2104 Aircraft Fuel Systems

CREDITS: 2 CLASS HOURS PER WEEK: 9 PREREQUISITES: AMT 1105

DESCRIPTION OF COURSE

In this course, students will develop an understanding of the fuel systems for aircraft and engines. The course will cover the inspection techniques and maintenance of the aircraft fuel systems including integral tanks, bladder tanks, plumbing, and associated systems.

STUDENT LEARNING OUTCOMES

Student will demonstrate an understanding of Aircraft Fuel Systems including the inspection, maintenance, and repair of the fuel systems.

GENERAL EDUCATION OUTCOMES

- Critical Thinking
- Communication Competence
- Cultural and Social Awareness
- Quantitative Skills
- Scientific Literacy
- Technological Competence

INSTITUTIONAL LEARNING GOALS

Columbus State Community College's Institutional Learning Goals are an integral part of the curriculum and central to the mission of the college. The faculty at Columbus State has identified the following institutional learning goals:

- Scientific Literacy
- Technological Competence

COURSE MATERIALS REQUIRED

CSCC Aviation Technology required tools.

TEXTBOOK, MANUALS, REFERENCES, AND OTHER READINGS

Airframe 8083-31 Vol 1
Airframe 8083-31 Vol 2
Airframe Workbook
A&P Airframe Test Guide

AVIATION MAINTENANCE TECHNOLOGY SYLLABUS STATEMENTS

Aviation Maintenance Technology required College Syllabus Statements on **Assessment, Participation and Safety**, and **Attendance** can be found at

<http://www.csc.edu/academics/departments/aviation-maintenance/requirements.shtml> or on

the College website –Search ‘Aviation’; click on ‘Aviation Maintenance’; click on ‘Requirements’ tab.

SPECIAL COURSE REQUIREMENTS

Part 147 Para 147.21 (d) (3) and 147.31 (b) state that tests must be given in all subject areas and that the tests given must all be passed.

As students progress through the program, they will be given subject area tests relative to the course subject areas. Students must demonstrate a 70% minimum passing score on every subject test. If a subject area test is failed, the student will be given additional opportunities to pass the subject test. All subject tests must be passed before a certificate of program completion can be issued.

FAA Subject Area Test for this course:
 III-P - Aircraft Fuel Systems

To be awarded a Certificate of Program Completion, in addition to subject area testing, the student must also:

Successfully pass each course required for the certificate. Requirements for passing each course include:

A 70% average evaluation for graded course elements. Instructors determine the weights of course grading.

Successful completion of all required laboratory requirements of the course.
 Attendance in compliance with the attendance policy.

Students can pass a course with a grade of “D”, however students must have a minimum overall Grade Point Average of 2.0 (out a possible 4.0) to be awarded a certificate of completion. Courses can be repeated to improve grades.

Grade Area	Weight	Percentage Earned		Lab Project	Pass	Fail
Unit Tests	60%			Identify Fuel System Components		
Mid-Term	N/A	N/A		Inspect Fuel Systems		
Final	10%			Service Fuel Systems		
Participation & Safety	10%					
Other – Homework Assignments	20%					
Total	100%					

Course Letter Grade					

Student Resources, Rights, and Responsibilities: Columbus State Community College required College Syllabus Statements on College Policies and Student Support Services can be found at <https://www.csc.edu/academics/syllabus.shtml>.

UNITS OF INSTRUCTION – AMT 2104

ASSIGNMENT	LEARNING OBJECTIVES/GOALS	ASSESSMENT METHODS	ASSIGNMENTS	
Assignment 1	Aviation Fuels and Fuel System Requirements	Test, Quizzes, Worksheets	Read:	Airframe Text Ch15 Sec A
			Labs:	
			Test:	Test 1
Assignment 2	Fuel System Operation	Test, Quizzes, Worksheets	Read:	Airframe Text Ch15 Sec B
			Labs:	
			Test:	Test 2
Assignment 3	Fuel System Repair, Testing, and Servicing	Test, Quizzes, Worksheets	Read:	Airframe Text Ch 15 Sec C
			Labs:	
			Test:	Test 3