AMT 110 Aircraft Electricity

Course Description: A course that uses FAA-approved instruction for foundation concepts and techniques in aviation maintenance. Topics include: basic concepts of math, physics, and electricity; aircraft drawings; and maintenance forms and records.

Prerequisites(s): No prerequisites

Corequisite(s): MAT 122

Lecture Hours: 3	Lab Hours: 3	Credit Hours: 4
Lab Fee: 150	Supplemental Fee: 0	Purpose:
☐ Transfer Assurance Guide Course (TAG)	☐ Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: Classroom		
Semesters Offered: Fall - Days, Fall - Evenings		

Course Primary Text:

Title: Aircraft Electricity and Electronics	Edition: 5th
Author(s): Eismin	
Publisher: Glencoe	

Supplemental Materials:

Advisory Circular (43.13-1B), U.S. Department of Transportation, Federal Aviation Administration
FAA 8083-30A, U.S. Department of Transportation, Federal Aviation Administration

Course Outcomes:

1	Students will learn to calculate the electrical power required to operate an electric motor.
2	Students will learn to draw a diagram showing use of a galvanometer in a circuit.
3	Students will install a voltmeter in an electrical circuit.
4	Students will read and record voltage and current. Students will read and record voltage values.
5	Students will use VOM in the voltage mode, ohmmeter mode, and current mode.
6	Students will select DC or AC voltage ranges.
7	Students will connect test leads for reading voltage.
8	Students will read and record current values properly.
9	Students will solve ten problems by calculating the power having values of voltage, current and resistance given. Specify the unit of measurement with each answer.
10	Students will demonstrate the operation of an aircraft relay and the operation of a solenoid.

Course Topics:

Course booklet with FAA approved practical projects and course lectures is located in the AMT Offices at the Cincinnati State West Campus.

Methods of Evaluation/Assessment

Tests
Quizzes
Lab Projects
Lab & Class Participation
Attendance

Course Keeper: Gary Goodpaster

Date Completed: April 01, 2019