MASTER COURSE OUTLINE
Prepared By: D Berry-Guerin/K Dannenberg Date: January 2018

COURSE TITLE
Aircraft Wiring Systems

GENERAL COURSE INFORMATION
Dept.: AVIO& Course Num: 103 (Formerly:)
CIP Code: 47.0609 Intent Code: 21 Program Code: 660
Credits: 2
Total Contact Hrs Per Qtr.: 33
Lecture Hrs: 11 Lab Hrs: 22 Other Hrs:
Distribution Designation: General Elective (GE)

COURSE DESCRIPTION (as it will appear in the catalog)
Fundamentals, troubleshooting, and repair of aircraft wiring, including acceptable standards for visual, electrical, and mechanical quality.

PREREQUISITES
AVIO101 or AMT149

TEXTBOOK GUIDELINES
Avionics text as decided by AMT/AVIO Faculty

COURSE LEARNING OUTCOMES
Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills:

1. Identify safety practices, electrostatic discharge sensitive devices, tools and equipment, calibration and certification requirements, measurements, troubleshooting procedures and LRU replacement techniques.
2. Use Wiring Diagram Manuals and Standard Wiring Practices Manual.
3. Perform wiring system inspections.
4. Identify the practices for the general housekeeping of wires and connectors.
5. Identify, select and repair wire.
6. Identify connector components and damage.
7. Repair connectors.

INSTITUTIONAL OUTCOMES
IO3 **Human Relations/Workplace Skills**: Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills

COURSE CONTENT OUTLINE

1. Safety practices
2. Electrostatic discharge sensitive devices
3. Tools and equipment
4. Calibration and certification requirements
5. Troubleshooting procedures

6. LRU replacement techniques
7. Wiring Diagram Manuals
8. Standard Wiring Practices Manual
9. Wiring system
10. Wire
11. Connector components
12. Repair connectors

DEPARTMENTAL GUIDELINES *(optional)*

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DIVISION CHAIR APPROVAL **DATE**