



MEMO

TO: All Students, Faculty and Staff – Canton Campus

FROM: Timothy P. Kissel, Vice President of Education

DATE: April 28, 2015

RE: Addendum to Catalog Volume 60 (dated March 4, 2015)

Please see the addendum to Catalog Volume 60 dated March 4, 2015 correcting a typographical error for the name of General Education Course GE115-3: Organizational Behavior.



ADDENDUM

This addendum revises MIAT College of Technology
Catalog, Volume 60 dated March 4, 2015
Effective: April 27, 2015

Degree Programs of Study

Aviation Maintenance Technology-AAS

The Aviation Maintenance Technology Program is a combination of classroom and hands-on instruction and outside work/homework. Upon completion of this FAA (Federal Aviation Administration) certificated program, graduates are eligible to apply and test for the Airframe and Powerplant FAA Certification that is nationally recognized. Upon certification, graduates also possess industry-recognized certificates and are prepared to enter various career areas of the aviation industry at an entry level. Career options include, but are not limited to, **Commercial Airlines, Corporate Aviation, Helicopters, Unmanned Aircraft Systems, General Aviation, Manufacturing, Repair and Overhaul and Avionics**. A sample of entry-level careers include: Airframe Technician, Powerplant Technician, Aircraft Restoration, Jet Engine Mechanic, Avionics Technician, Avionics Installer, Engine Manufacturing, Structures Technician, Sheetmetal Assemble and Riveter. There are some limitations for career options without the FAA Airframe and Powerplant Certification. Graduates can also secure entry-level positions in other technical areas such as: **Wind Energy** (Wind Technician), **Manufacturing Production** (Electrical, Hydraulics/Pneumatics Technician, and Sheetmetal/Composite Technician), **Engine and Other Machine Assemblers** (Engine Assembler, Engine Builder, Fuel Injection Technician) and **Electrical/Electronics** (Control Technician, Instrument Repair Technician, Electronics Technician, Service Technician). Additionally, the general education courses expand and enhance non-technical skills important to the career growth and development of graduates of this program.

Aviation Maintenance Technology Program
Associate in Applied Science (AAS)
2340 Clock Hours
135 Quarter Credit Hours
Day or Afternoon Program
24 Months

AIR SCIENCE SECTION

Course Number	Course Name	Clock Hours	Credit Hours
*AS101-3	Learning Strategies and History	42	2.5
*AS102-3	Math and Drawings	48	2.5
*AS103-3	NDT and Physics	60	3.0
*AS104-3	Weight and Balance, Safety and Ground Operations	60	3.0
*AS105-3	Fluid Lines, Materials and Processes and FARs	90	4.5
*AS106-3	Basic Electricity I	42	2.5
*AS107-3	Basic Electricity II	54	3.0
*AS108-3	Basic Electricity III	54	3.0

AIRFRAME SECTION

Course Number	Course Name	Clock Hours	Credit Hours
*AF201-3	Basic Sheetmetal and Welding I	54	3.0
*AF202-3	Basic Sheetmetal and Welding II	54	2.5
*AF203-3	Basic Sheetmetal and Welding III	42	2.0
*AF204-3	Advanced Sheetmetal	84	4.0
*AF205-3	Rigging and Fuel Systems	66	3.5
*AF206-3	Non-Metallic Structures	84	4.0
*AF207-3	Cabin Atmosphere and Aircraft Finishes	66	3.5
*AF208-3	Airframe Electrical I	54	3.0
*AF209-3	Airframe Electrical II	54	3.0
*AF210-3	Position and Warning and Principles of Troubleshooting	42	2.0
*AF211-3	Aircraft Instruments and Advanced Troubleshooting	72	3.5
*AF212-3	Communication and Navigation Systems	78	4.0
*AF213-3	Hydraulics and Pneumatics	54	3.0
*AF214-3	Landing Gear Systems	48	2.5
*AF215-3	Airframe Inspection	48	2.5

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POWERPLANT SECTION

Course Number	Course Name	Clock Hours	Credit Hours
*PP201-3	Reciprocating Engine Operation	54	3.0
*PP202-3	Fuel Metering Systems	54	3.0
*PP203-3	Induction, Exhaust and Instrument Systems	42	2.5
*PP204-3	Powerplant Lubrication Systems and Propellers	78	4.5
*PP205-3	Reciprocating Engine Ignition Systems	72	4.0
*PP206-3	Reciprocating Engine Inspection and Overhaul I	48	2.5
*PP207-3	Reciprocating Engine Inspection and Overhaul II	54	2.5
*PP208-3	Fire Protection and Reciprocating Engine Systems Troubleshooting	48	3.0
*PP209-3	Turbine Engine Operation and Design I	42	2.5
*PP210-3	Turbine Engine Operation and Design II	42	2.5
*PP211-3	Turbine Engine Accessories	66	3.5
*PP212-3	Turbine Engine Instruments	30	1.5
*PP213-3	Turbine Engine Maintenance	54	3.0
*PP214-3	Turbine Engine Overhaul and Troubleshooting	66	3.0

GENERAL EDUCATION SECTION

Course Number	Course Name	Clock Hours	Credit Hours
GE110-3	Intermediate Algebra	40	4.0
GE111-3	English Composition	40	4.0
GE112-3	Public Speaking	40	4.0
GE113-3	Introduction to Sociology	40	4.0
GE114-3	Environmental Sciences	40	4.0
GE115-3	Organizational Behavior	40	4.0

*FAA Approved Curriculum

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Energy Technology-AAS

The Energy Technology Program is a combination of classroom, hands-on assignments and outside work/homework. Power generation, power plant operations, wind power, compression technology and process systems are covered. Upon successful completion of the Energy Technology program, graduates will have entry-level career choices in a variety of areas in the energy industry to include, **Wind, Gas, Coal, Nuclear, Solar, Standby Power, Geothermal, Hydroelectric, Methane/Landfill Gas Generation, Power Distribution and Dispatch, and Water Treatment.** A sample of job titles include: Power Plant Operator, Maintenance Worker/Repairer, Industrial Mechanic, Electrical/Electrician Repairer, Auxiliary Operator, Control Operator, Operations and Maintenance Technician, Field Service Technician, Boiler Operator, Gas Turbine Technician, Wind Turbine Construction Technician, Wind Service Technician, and Solar Installation Technician. Additionally, the general education courses expand and enhance non-technical skills important to the career growth and development of graduates of this program.

Energy Technology Program
Associate in Applied Science (AAS)
1440 Clock Hours
94 Quarter Credit Hours
All Quarters are a minimum of ten calendar weeks
Day or Afternoon Program
16 Months/7 Quarters

Course Number	Course Name	Clock Hours	Credit Hours
ET101-1	Learning Skills, History and Math	72	4.5
ET102-1	OSHA	48	3.0
ET103-1	Tools and Professional Skills	48	3.0
ET104-1	Precision Measuring and Rigging	72	4.0
ET105-2	DC Electrical Theory	60	3.5
ET106-2	AC Electrical Theory	60	3.5
ET107-2	Three-Phase Theory	84	5.0
ET108-2	Inspection	36	2.0
ET109-1	Climb and Rescue	54	3.0
ET110-2	Wind Operation	66	4.0
ET111-2	Wind Turbine Components	60	3.5
ET112-2	Renewable Energy Sources	60	3.5
ET113-1	Gas Turbine and Co-Generation Operation	66	4.0
ET114-1	Gas Turbine Maintenance	54	3.0
ET115-1	Boiler Operation	60	3.5
ET116-1	Steam Operation	60	3.5
ET209-1	Process Systems and Components	60	3.5
ET210-1	Refining Processes and Energy Platform Service	60	3.5
ET211-1	Compression Technology	30	1.5
ET212-2	Materials, Processes, Welding and Advanced Troubleshooting	90	5.0

GENERAL EDUCATION SECTION

Course Number	Course Name	Clock Hours	Credit Hours
GE110-3	Intermediate Algebra	40	4.0
GE111-3	English Composition	40	4.0
GE112-3	Public Speaking	40	4.0
GE113-3	Introduction to Sociology	40	4.0
GE114-3	Environmental Sciences	40	4.0
GE115-3	Organizational Behavior	40	4.0