Middle Georgia State College  
Non-Substantive Program Modification Proposal Form

Instructions: All program modifications must be signed by the Chair and Dean and submitted to the Vice President for Academic Affairs.

Faculty Initiating Request: Martin Kehayes  
Submission Date: 

Department/School: Aircraft Maintenance and Structural Technology/School of Aviation  

Degree Program: Aircraft Maintenance Technology Certificate  
Effective Date: Spring 2015  

Provide a description of the program exactly as it will appear in the catalog:

Aviation Maintenance Technology (Certificate)

The Aviation Maintenance Technology (AMT) certificate program prepares students for careers in aircraft maintenance and repair. The program philosophy stresses a combination of knowledge, skills, and practical experience in accordance with Federal Aviation regulations. Upon successful completion, a student will be prepared for Federal Aviation Administration (FAA) oral, practical and written examinations. Once certified by the FAA, a graduate is qualified to perform duties and responsibilities of an Airframe and Powerplant (A&P) mechanic.

Graduates can find employment with airport fixed base operations, charter air services, regional or major airlines, the military, aviation suppliers, manufacturers, and the FAA. Program graduates will be competent in the fundamentals of aircraft and engine electrical, electronic, hydraulic, pneumatic, and mechanical systems maintenance, application, and troubleshooting.

A grade of C or better is required in all AMTP courses.

P. Maki Kehayes  
Faculty Member  
11/12/14  

Chair  
11/18/14  

Dean  

Assistant VP of Academic Planning & Policy  
Mary Wren  
11/12/14  

VP of Academic Affairs  
Martha L. Venn  
12/3/15  

Chair Academic Affairs Committee  
Sondra Clayton  
12/21/15  

Rev. 10.23.13  
Page 1 of 3
Current Program:

- AMTP 1000 - Aviation Math Credit: 3 hours
- AMTP 1010 - Aircraft Maintenance Regulations Credit: 2 hours
- AMTP 1020 - Aircraft Applied Science Credit: 9
- AMTP 1030 - Aircraft Electricity/Electronics Credit: 5 hours
- AMTP 1210 - Aviation Physics Credit: 3 hours
- AMTP 2010 - Aircraft Airframe Structures Credit: 4 hours
- AMTP 2020 - Airframe Sheetmetal & Non-Metallic Structures Credit: 8 hours
- AMTP 2040 - Airframe Assembly & Rigging Credit: 2 hours
- AMTP 2050 - Airframe Inspections Credit: 3 hours
- AMTP 2060 - Aircraft Hydraulic, Pneumatic & Landing Gear Systems Credit: 5 hours
- AMTP 2080 - Aircraft Environmental Control Systems Credit: 7 hours
- AMTP 2090 - Aircraft Electrical, Communication & Navigation Systems Credit: 6 hours
- AMTP 2210 - Reciprocating Engine Powerplants Credit: 8 hours
- AMTP 2230 - Gas Turbine Powerplants Credit: 6 hours
- AMTP 2250 - Aircraft Engine Inspections Credit: 1 hours
- AMTP 2260 Aircraft Engine Fuel & Fuel Metering Systems Credit: 5 hours
- AMTP 2270 - Aircraft Engine Electrical, Ignition & Starting Systems Credit: 7 hours
- AMTP 2280 - Aircraft Powerplant Accessory Systems Credit: 6 hours

Note: AVNC 1030 Aircraft Electric/Electronic Systems Installation is available as an elective course for Avionics Installation.

Total Hours: 90

Modified Program:

- AMTP 1000 - Aviation Math Credit: 1 hours
- AMTP 1010 - Aircraft Maintenance Regulations Credit: 2 hours
- AMTP 1020 - Aircraft Applied Science Credit: 7 hours
- AMTP 1030 - Aircraft Electricity/Electronics Credit: 3 hours
- AMTP 1210 - Aviation Physics Credit: 1 hours
- AMTP 2010 - Aircraft Airframe Structures Credit: 2 hours
- AMTP 2020 - Airframe Sheetmetal & Non-Metallic Structures Credit: 5 hours
- AMTP 2040 - Airframe Assembly & Rigging Credit: 2 hours
- AMTP 2050 - Airframe Inspections Credit: 3 hours
- AMTP 2060 - Aircraft Hydraulic, Pneumatic & Landing Gear Systems Credit: 3 hours
- AMTP 2080 - Aircraft Environmental Control Systems Credit: 5 hours
- AMTP 2090 - Aircraft Electrical, Communication & Navigation Systems Credit: 5 hours
- AMTP 2210 - Reciprocating Engine Powerplants Credit: 6 hours
- AMTP 2230 - Gas Turbine Powerplants Credit: 5 hours
- AMTP 2250 - Aircraft Engine Inspections Credit: 1 hours
- AMTP 2260 Aircraft Engine Fuel & Fuel Metering Systems Credit: 4 hours
- AMTP 2270 - Aircraft Engine Electrical, Ignition & Starting Systems Credit: 5 hours
- AMTP 2280 - Aircraft Powerplant Accessory Systems Credit: 5 hours

Note: AVNC 1030 Aircraft Electric/Electronic Systems Installation is available as an elective course for Avionics Installation.

Total Hours: 65
Provide a brief rationale for this program modification. For example, does it reflect updated disciplinary content? Does it align the program with state or national norms? Does it promote progression?

Changed credit hour requirements to align the program with national norms.
Aviation Maintenance Technology (AAS)

The Aviation Maintenance Technology (AMT) Associate of Applied Science degree program prepares students for careers in aircraft maintenance and repair. The program philosophy stresses a combination of knowledge, skills, and practical experience according to Federal Aviation Regulations. Upon successful completion, a student will be prepared for Federal Aviation Administration (FAA) oral, practical and written examinations. Once certificated by the FAA, a graduate is qualified to perform duties and responsibilities of an Airframe and Powerplant (A&P) mechanic.

Graduates can find employment with airport fixed base operations, charter air services, regional or major airlines, the military, aviation suppliers, manufacturers, and the FAA. Program graduates will be competent in the fundamentals of aircraft and engine electrical, electronic, hydraulic, pneumatic, and mechanical systems maintenance, application, and troubleshooting.

A grade of C or better is required in all AMTP courses.

See attached.
### Current Program:

**Area A Credit:** 9 hours  
**Essential Skills:**  
- ENGL 1101 - English Composition I Credit: 3 hours  
- ENGL 1102 - English Composition II Credit: 3 hours  
- Area A Math Elective Credit: 3 hours  
**Note:** Courses required for Area A must be completed within the first 30 hours.  
**Area B Credit:** 4 hours  
**Institutional Options:**  
- Perspectives Elective Credit: 4 hours  
**Area D Credit:** 4 hours  
**Science, Math, and Technology:**  
- Any Science with Lab Credit: 4 Hours  
**Area E Credit:** 9 hours  
**Social Sciences:**  
- HIST 2111 - United States History to 1865 Credit: 3 hours  
- or HIST 2112 - United States History since 1865 Credit: 3 hours  
- and POLS 1101 - American Government Credit: 3 hours  
**Area F Credit:** 90 hours  
- AMTP 1000 - Aviation Math Credit: 3 hours  
- AMTP 1010 - Aircraft Maintenance Regulations Credit: 2 hours  
- AMTP 1020 - Aircraft Applied Science Credit: 9  
- AMTP 1030 - Aircraft Electricity/Electronics Credit: 5 hours  
- AMTP 1210 - Aviation Physics Credit: 3 hours  
- AMTP 2010 - Aircraft Airframe Structures Credit: 4 hours  
- AMTP 2020 - Airframe Sheetmetal & Non-Metallic Structures Credit: 8 hours  
- AMTP 2040 - Airframe Assembly & Rigging Credit: 2 hours  
- AMTP 2050 - Airframe Inspections Credit: 3 hours  
- AMTP 2060 - Aircraft Hydraulics, Pneumatic & Landing Gear Systems Credit: 5 hours  
- AMTP 2080 - Aircraft Environmental Control Systems Credit: 7 hours  
- AMTP 2090 - Aircraft Electrical, Communication & Navigation Systems Credit: 6 hours  
- AMTP 2210 - Reciprocating Engine Powerplants Credit: 8 hours  
- AMTP 2230 - Gas Turbine Powerplants Credit: 6 hours  
- AMTP 2250 - Aircraft Engine Inspections Credit: 1 hours  
- AMTP 2260 Aircraft Engine Fuel & Fuel Metering Systems Credit: 5 hours  
- AMTP 2270 - Aircraft Engine Electrical, Ignition & Starting Systems Credit: 7 hours  
- AMTP 2280 - Aircraft Powerplant Accessory Systems Credit: 6 hours  
**Note:** AVNC 1030 Aircraft Electric/Electronic Systems Installation is available as an elective course for Avionics Installation.  
**Major Field:** 90  
**Total Hours:** 113

### Modified Program:

**Critical Reading and Writing:** 6 hours  
- ENGL 1101 - English Composition I Credit: 3 hours  
- ENGL 1102 - English Composition II Credit: 3 hours  
**Natural Sciences / Mathematics Elective:** 3 hours  
Choose one of the following courses:  
- MATH 1101 - Introduction to Mathematical Modeling Credit: 3 hours  
- MATH 1111 - College Algebra Credit: 3 hours  
**Humanities/Fine Arts Elective:** 3 hours  
Choose one of the following courses:  
- ENGL 2111 - World Literature I Credit: 3 hours  
- ENGL 2112 - World Literature II Credit: 3 hours  
**Institutional Electives:** 4 hours  
- Perspectives Elective Credit: 4 hours  
**Social/Behavioral Sciences:** 6 hours  
- HIST 2111 - United States History to 1865 Credit: 3 hours  
- or HIST 2112 - United States History since 1865 Credit: 3 hours  
- and POLS 1101 - American Government Credit: 3 hours  
**Major Field Courses:** 65 hrs  
- AMTP 1000 - Aviation Math Credit: 1 hours  
- AMTP 1010 - Aircraft Maintenance Regulations Credit: 2 hours  
- AMTP 1020 - Aircraft Applied Science Credit: 7 hours  
- AMTP 1030 - Aircraft Electricity/Electronics Credit: 3 hours  
- AMTP 1210 - Aviation Physics Credit: 1 hours  
- AMTP 2010 - Aircraft Airframe Structures Credit: 2 hours  
- AMTP 2020 - Airframe Sheetmetal & Non-Metallic Structures Credit: 5 hours  
- AMTP 2040 - Airframe Assembly & Rigging Credit: 2 hours  
- AMTP 2050 - Airframe Inspections Credit: 3 hours  
- AMTP 2060 - Aircraft Hydraulics, Pneumatic & Landing Gear Systems Credit: 3 hours  
- AMTP 2080 - Aircraft Environmental Control Systems Credit: 5 hours  
- AMTP 2090 - Aircraft Electrical, Communication & Navigation Systems Credit: 5 hours  
- AMTP 2210 - Reciprocating Engine Powerplants Credit: 6 hours  
- AMTP 2230 - Gas Turbine Powerplants Credit: 5 hours  
- AMTP 2250 - Aircraft Engine Inspections Credit: 1 hours  
- AMTP 2260 Aircraft Engine Fuel & Fuel Metering Systems Credit: 4 hours  
- AMTP 2270 - Aircraft Engine Electrical, Ignition & Starting Systems Credit: 5 hours  
- AMTP 2280 - Aircraft Powerplant Accessory Systems Credit: 5 hours  
**Total Hours:** 86.67
This program change creates simpler alignment with Board of Regents General Education policy for career associate's degrees. The new curriculum will go into effect Spring 2015. Students who began studies at MGA at an earlier date will follow the catalog that was in place at the time of their matriculation.

Also, changed credit hour requirements to align the program with national norms.
Aviation Maintenance Technology (A.A.S.)

Curriculum for Associate of Applied Science in Aviation Maintenance Technology

Note: The AAS in Aircraft Maintenance Technology fulfills general education requirement for a career associate degree.

Critical Reading and Writing: 6 hours

- ENGL 1101 - English Composition I Credit: 3 hours (3-0-3)
- ENGL 1102 - English Composition II Credit: 3 hours (3-0-3)

Natural Sciences / Mathematics Elective: 3 hours
Choose one of the following courses:
- MATH 1101 - Introduction to Mathematical Modeling Credit: 3 hours
- MATH 1111 - College Algebra Credit: 3 hours

Note: ENGL 1101, ENGL 1102, and the Mathematics elective must be completed within the first 30 hours.

Humanities/Fine Arts Elective: 3 hours
Choose one of the following courses:
- ENGL 2111 - World Literature I Credit: 3 hours
- ENGL 2112 - World Literature II Credit: 3 hours

Institutional Electives: 4 hours
- Perspectives Elective Credit: 4 hours

Social/Behavioral Sciences: 6 hours

- HIST 2111 - United States History to 1865 Credit: 3 hours
  or
- HIST 2112 - United States History since 1865 Credit: 3 hours
  and
- POLS 1101 - American Government Credit: 3 hours

Major Field Courses: 65 hours

- AMTP 1000 - Aviation Math Credit: 1 hours
- AMTP 1010 - Aircraft Maintenance Regulations Credit: 2 hours
- AMTP 1020 - Aircraft Applied Science: Credit 7 hours
- AMTP 1030 - Aircraft Electricity/Electronics Credit: 3 hours
- AMTP 1210 - Aviation Physics Credit: 1 hours
- AMTP 2010 - Aircraft Airframe Structures Credit: 2 hours
- AMTP 2020 - Airframe Sheetmetal & Non-Metallic Structures Credit: 5 hours
- AMTP 2040 - Airframe Assembly & Rigging Credit: 2 hours
- AMTP 2050 - Airframe Inspections Credit: 3 hours
- AMTP 2060 - Aircraft Hydraulics, Pneumatic & Landing Gear Systems Credit: 3 hours
- AMTP 2080 - Aircraft Environmental Control Systems Credit: 5 hours
- AMTP 2090 - Aircraft Electrical, Communication & Navigation Systems Credit: 5 hours
- AMTP 2210 - Reciprocating Engine Powerplants Credit: 6 hours
• AMTP 2230 - Gas Turbine Powerplants Credit: 5 hours
• AMTP 2250 - Aircraft Engine Inspections Credit: 1 hour
• AMTP 2260 Aircraft Engine Fuel & Fuel Metering Systems Credit: 4 hours
• AMTP 2270 - Aircraft Engine Electrical, Ignition & Starting Systems Credit: 5 hours
• AMTP 2280 - Aircraft Powerplant Accessory Systems Credit: 5 hours

Note: AVNC 1030 Aircraft Electric/Electronic Systems Installation is available as an elective course for Avionics Installation.

Total Hours 87