

## AS Aviation Maintenance Technology CPR Index (AY22-23)

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### Comprehensive Program Review

AV 2022 - 2023

**Institution:** Middle Georgia State University

**Academic Program:** AAS in Aviation Maintenance Technology

**College or School:** School of Aviation

**Department:** Aviation Maintenance and Structural Technology

**CIP Code:** 470607

**Date of Last Internal Review:** 3/2018

**Faculty Completing Report:** Martin Kehayes

**Current Date:** 12/11/2022

#### 5 Year Enrollment by Campus and Graduation Trends

##### Enrollment

Campus	Fall 2018	Fall 2019	Fall 2020	Fall 2021	Fall 2022	5 YR Growth	Fall 2018 compared to Fall 2022 only
Macon	4	2	8	5	1		
Cochran	22	27	24	19	15		
Warner Robins			1				
Dublin		1	1	1	1		
Eastman	31	62	76	73	68	21.70%	119%
Online		12	31	22	25		
Off Campus	7						
<b>Total</b>	64	104	141	120	110	14.50%	72%

##### Graduates

- For data consistency, the fiscal year is in which the degree was awarded. For examples, academic year 2019 includes degrees conferred in Summer 2018, Fall 2018, and Spring 2019.

AY2018	AY2019	AV2020	AV2021	AV2022	SYRGrowth	AY2018 compared toAY2022 only
10	11	14	27	36	37.74%	260%

### Program purpose and mission

The mission statement of the University is as follows, *"Middle Georgia State University educates and graduates inspired lifelong learners whose scholarship and careers enhance the region through professional leadership, innovative partnerships, and community engagement"*.

Compare that with the School of Aviation mission, *'The School of Aviation educates and prepares students for technical and management careers in the aviation, aerospace, and related industries, who understand the industry and organizations they are part of and the communities they serve'*.

The role of the AMT program is to prepare the student to enter the aviation industry with the skill set necessary to be a competent entry-level mechanic. In addition, the program serves to prepare the student to take a series of examinations administered by the FAA. Successful completion of these exams lead to the issuance of the FAA airframe and powerplant certificates.

The program purpose and mission of the Aviation Maintenance Technology program aligns well with both the MGA, and School of Aviation missions. Graduates of the program contribute directly to the Georgia economy by contributing to the aviation industry. Most of our graduates choose to spend their careers in state working with companies such as Delta Air Lines, Gulfstream Aerospace, and Warner Robins Air Logistics Center.

Aviation Maintenance Technology complements well the school of aviation, and helps provide the mechanics needed to meet the looming shortages in the industry. As a part of the School of Aviation, it supports the critical workforce development role that Middle Georgia State University plays in Georgia. The AMT program is a valuable part of the whole. It would be difficult to imagine a School of Aviation that did not represent the vast part of the aviation industry that is maintenance related.

### Program age, tracks, concentrations, etc.

Established in 1996 as part of Heart of Georgia Technical College, the Aviation Maintenance Technology Program (AMTP), now as part of MGA, is in its 27th year.

The AMT airframe and powerplant certificate program requires 65 credit hours of study. To obtain the associates of AMT, an additional 22 credit hours of study (basic college core) is required.

### **Accreditation information/status**

The Federal Aviation Administration (FAA) under Title 14 of the Code of Federal Regulations (CFR), Part 147, certifies the program. In addition, the program falls under University SACSCOC accreditation.

### **Method(s) of delivery**

The five semester long program consists of 18 classes, which require the student to complete 1960 contact hours of instruction. To complete the contact hours within five semesters, the student must attend class Monday- Thursday, from 7am until 4pm. The program is "hands on" oriented, with much of the instruction delivered in a hangar environment.

FAA regulations dictate the student to faculty ratio. The FAA allows for a maximum student to faculty ratio, in the laboratory environment, to be no more than 25 to 1. While the ratio can be higher in the classroom environment, additional instructor supervision must be present in the laboratory to accommodate student numbers greater than 25.

Currently, the AMTP program instruction takes place exclusively on the Eastman campus, largely due to the contact hours required, and the laboratory component to the program.

The AMT program is one of two programs (Aircraft Structural Technology, AST, is the other) within the department of Aviation Maintenance and Structural Technology (AMST). This department, housed within the School of Aviation, is headquartered on the Eastman Campus. All AMT courses are taught "brick and mortar" at this time. Aviation Maintenance Technology offers four programs: an associates of applied science in aviation maintenance technology (AAS AMT), the airframe and powerplant certificates only (AMAP), and lastly, airframe only (AMTA), and powerplant only (AMTP) certificate options. Of the four, only the AAS AMT, and AMAP have graduated students during the period reviewed.

### **Changes since last review**

The most significant changes since the last CPR are related to growth within the program. Due to increasing interest in the AMTP program, a second fall cohort was added to the schedule in the fall of 2019. This increased the number of cohorts from 4 to 6.

### **Benchmarks of progress**

Enrollment and graduation numbers over the past 5 years are strong indicators of progress. By the addition of a second cohort in the fall, freshman enrollment has increased by 25-30 students per year.

### **Plans for action**

In the fall of 2020, the FAA released its long awaited change to Part 147. A significant change in the rule is that it allows for maintenance instruction to be delivered at satellite campuses, or alternate training locations (ATL). Middle Georgia State University, in partnership the Griffin

Regional College and Career Academy (GRCCA), is making plans to deliver the General curriculum to dual enrolled high school students, on the GRCCA campus. This strategic move has the potential to increase the number of freshman AMT students by 16. This expansion of curriculum delivery is the first step in potentially offering a complete AMT program at an ATL, as well as partnerships with other college and career academies.

#### **Shifting trends and market forces that may impact program demand**

The demand for Aviation Maintenance Technicians appears strong going forward as evidenced by the recent Boeing studies.

*'The 2019 Boeing Pilot & Technician Outlook predicts that 769,000 new maintenance technicians are needed to maintain the world fleet over the next two decades.' This growth in industry is attributed to several factors: an increase in fleet growth, attrition, and retirements.*

*Several hundred thousand technicians reach the age of retirement over the next ten years. Technical education, in the form of FAA Part 147 Mechanic Schools, continues to be the main form of training, and will be essential in meeting this need for mechanics. According to the Boeing study, North America will require 193,000 new mechanics.*

At the end of the day, the future of aviation, and therefore, the future of aviation technical training, looks bright. Having said that, aviation is a global industry, and is susceptible to the health of this larger economy. We experienced, during COVID that aviation can contract rapidly. Fortunately, aviation rebounded quickly, in fact, MGA was able to continue its expansion of the AMT program through this period of uncertainty.

Going forward, we will continue to look for creative solutions to meeting the training needs of the aviation industry.

**Note: The narrative areas should be as direct as possible, address all the areas/elements referenced above, and be of sufficient length to represent your academic program holistically since the last review. In drafting the CPR note the principle/function is to "address the quality, viability, and productivity of efforts in teaching and learning, scholarship, and service as appropriate to the institution's mission."**

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USG Academic and Student Affairs Handbook 2.3.6 "consistent with efforts in institutional effectiveness and strategic planning, each USG institution shall develop procedures to evaluate the effectiveness of its academic programs to *address the quality, viability, and productivity of efforts in teaching and learning, scholarship, and service as appropriate to the institution's mission*. Institutional review of academic programs shall involve analysis of both quantitative and qualitative data, and institutions must demonstrate that they make judgments about the future of academic programs within a culture of evidence"

IEB's Comprehensive Program Review Rubric and Evaluation

Date Reviewed: 3/31/2023

Program Reviewed: AAS Aviation Maintenance Technology

**Contextual Notes:** Summarize any demographic or environmental factors described in the introduction that might significantly impact assessment of the program

Of interest to note for this program, going forward, the future demand for Aviation Maintenance Technicians appears strong as evidenced by recent Boeing studies. "The 2019 Boeing Pilot & Technician Outlook predicts that 769,000 new maintenance technicians are needed to maintain the world fleet over the next two decades." This growth in industry is attributed to an increase in fleet growth, attrition, and retirements.

Area of Focus	Exemplary Area	Satisfactory Area	Area of Concern	No Evidence	Notes
Enrollment	<i>This program has significantly positive enrollment trends and robust credit hour production</i>				Exemplary! This program has significant positive enrollment trends, with a slight dip during COVID.
Graduation Trends <b>USG benchmark:</b>  Bachelor's Degrees: <b>10</b> graduates/year  Graduate, Associate's or Certificates: <b>5</b> graduates/year  <small>Programs falling under these benchmarks are designated as "low performing"</small>	<i>Three year rolling average greatly exceeds USG minimum benchmark for degrees conferred</i>				With a benchmark of 5, this program is currently at 36.  Our subcommittee believes that this program is Exemplary. Please see Program Strengths of Note section below.

## IEB's Comprehensive Program Review Rubric and Evaluation

**Program Strengths of Note:** There are many! Just to name a few:

- the Eastman enrollment has increased by 119% from fall 2018 to fall 2022, and its number of graduates has increased 260% over the same period.
- Due to increasing interest in the AMTP program, a second fall cohort was added to the schedule in the fall of 2019. This increased the number of cohorts from four to six.
- A significant change in an FAA rule in the fall of 2020 allows maintenance instruction to be delivered at satellite campuses, or alternate training locations (ATL). Middle Georgia State University, in partnership with the Griffin Regional College and Career Academy (GRCCA), is making plans to deliver the general curriculum to dual enrolled high school students, on the GRCCA campus.

**Areas of Concern:** None. Our subcommittee believes that this program is exemplary!

**Other Comments:** We feel that this aviation program is really soaring!



## **Comprehensive Program Review Report**

**Academic Program Name: AAS Aviation Maintenance Technology**

**College or School: School of Aviation**

**Department: Aviation Maintenance & Structural Technology**

**Date of Last Internal Review: March 2018**

**Outcome of Previous Program Review (brief narrative statement, if applicable):**

**Current Date: 05/31/2023**

**Executive Summary:** The AAS AMT program serves and in demand field. The job placement rate for this field is extremely high and has excellent pay. The industry in which this program serves has a shortage of personnel and is desperate to find new talent, which is provided by this program. The AAS allows for movement into management level positions and positions the graduates with the ability to move into a bachelor's degree program for further growth. The program is supported by a robust industry advisor committee as well as regulated by the Federal Aviation Administration (FAA). Given the strong outlook for the graduates of this program this program will be retained and has strategic plans for growth.

## Categorical Summation

Check any of the following to categorically describe action(s) the institution will take concerning this program.

### X Program MEETS Institution's Criteria

Program is critical to the institutional mission and will be retained.

X Program is critical to the institutional mission and is growing or a high demand field and thus will be enhanced.

### Program DOES NOT MEET Institution's Criteria

Program will be placed on a monitoring status.

Program will undergo substantive curricular revisions.

Program will be deactivated.

Program will be voluntarily terminated.

Other (identify/add text):

Academic Dean Signature:



Date: 05/31/2023

**Comprehensive Program Review Report**  
**Academic Program Name: AAS AMT**  
**Department: Aviation Maintenance & Structural Technology**  
**CPR Review Schedule AY22-23**

**Provost Response**

The AAS AMT The AAS Aviation Maintenance Technology program at Middle Georgia State University (MGA) has proven to be an asset within our academic portfolio, meeting both enrollment and graduation expectations. The program's success is a testament to its pivotal role in supporting the overall mission of MGA and aligning with strategic priorities. The enrollment figures underscore its appeal and relevance to students seeking a comprehensive education in aviation maintenance. Furthermore, the program's ability to consistently meet graduation expectations demonstrates its efficacy in preparing students for meaningful careers in the aviation industry. As a critical component of our aviation portfolio, the AAS AMT program not only fulfills our commitment to academic excellence but also addresses strategic priorities, ensuring that MGA continues to be a leading institution in aviation education.

Considering its performance and potential, the program's retention is recommended, accompanied by strategic plans to foster its ongoing growth. The AAS AMT program is well-positioned to meet the evolving needs of the industry and continue providing exceptional opportunities for students in the field of aviation maintenance.

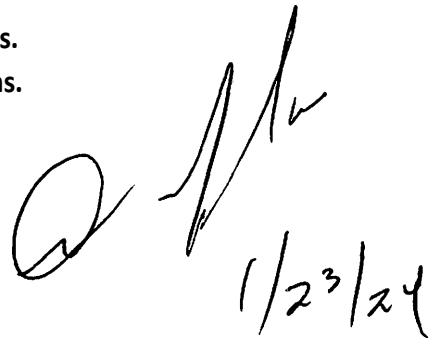
**Categorical Summation**

Check any of the following to categorically describe action(s) the institution will take concerning this program.

- Program MEETS Institution's Criteria**
  - Program is critical to the institutional mission and will be retained.**
  - Program is critical to the institutional mission and is growing or a high demand field and thus will be enhanced.**
- Program PARTIALLY MEETS Institution's Criteria and will be re-evaluated in**
- Program DOES NOT MEET Institution's Criteria**
  - Program will be placed on a 1 year monitoring status.**
  - Program will undergo substantive curricular revisions.**
  - Program will be deactivated.**
  - Program will be voluntarily terminated.**
  - Other (identify/add text):**

Provost or VPAA Signature:

Date:



Handwritten signature and date: 1/23/24