

1. Assessment Plan - Four Column



PIE - Technology & Health: Aircraft Maintenance Unit

Narrative Reporting Year

2018-19

Contact Person: David Yost

Email/Extension: dyost@mtsac.edu X4773

Program Planning Dialog: No changes made during the 2018-2019 year.

External Conditions, Trends, or Impacts: 1. Industry indicates very high employment rates but local programs indicate few graduates are completing their certification exams.

2. Changes in technology; industry is utilizing more digital electronic systems in new aircraft designs.

Internal Conditions, Trends, or Impacts : 1. Facilities: Relocation of Airframe and Powerplant lecture classrooms to more centralized location with updated AV resources. This issue resolved in summer of 2017.

Critical Decisions Made by Unit: None for 2018-2019

Notable Achievements for Theme A: To Advance Academic Excellence and Student Achievement: 1. Program has maintained an FAA written exam pass rate that is higher than the region and national average. Written exam section scores for our graduates continues to increase with each quarter.

2. Program hired a full-time evening professor which will provide instruction continuity to students .

3. Program developed and received FAA approval on new FAA Operations Manual which will standardize department procedures.

4. Program revised all three FAA curriculum manuals and submitted for FAA approval.

Notable Achievements for Theme B: To Support Student Access and Success: 1.Acquired an additional student award and established a new award to help students with certification exams expenses.

2. Department hosted a resume workshop, interview workshop, and career day which brought five employers to campus to recruit AIRM students.

Notable Achievements for Theme C: Secure Human, Technological, & Financial Resources: Program acquired a complete and airworthy turbine helicopter.

Notable Achievements for Theme D: To Foster an Atmosphere of Cooperation and Collaboration: 1. Program placed two additional students in maintenance positions with industry partner Unical 145.

2. Program participated in Aeroskills technician competition and our AIRM students won several awards.

Contributors to the Report: David Yost

Unit Goals

Resources Needed

Where We Make an Impact: Closing the Loop on Goals and Plans

Increase Norms Scores - Increase

Request - Full Funding Requested -

Reporting Year: 2017-18

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
<p>section scores against national scores on FAA written testing. Status: Active Goal Year(s): 2016-17, 2017-18, 2018-19 Date Goal Entered (Optional): 09/01/2016</p>	<p>Acquire modern Computer Based Training software and hardware Describe Plans & Activities Supported (Justification of Need): Industry training is increasingly more computer based. CBTs are also an excellent format for teaching technical topics within the program. Students would gain familiarization with CBTs and would improve their learning with the use of modern CBT programs and software. Lead: David Yost What would success look like and how would you measure it?: Graduates would earn appreciably higher scores on certification written exams. Type of Request: IT SUPPORT: Requests for projects related to the implementation, integration, application, delivery, and support of information and instructional technologies. Planning Unit Priority: High Documentation Attached?: No One-Time Funding Requested (if applicable): 18600</p>	<p>% Completed: 25 Required equipment has been estimated and submitted to the district for future funding. June 2017 Equipment cost updates to reflect current pricing (\$12,600 to \$22,000) March 2018 (08/02/2017)</p>
<hr/>		
<p>Curriculum Update - Update curriculum to satisfy new FAA part 147 curriculum requirements (Anticipated enactment by FAA was summer 2019 but has been delayed into likely summer 2020). Status: Active Goal Year(s): 2018-19 Date Goal Entered (Optional): 09/01/2019</p>		
<hr/>		

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
<p>Airframe Trainers - Secure additional industry-industry relevant airframe trainers Status: Active Goal Year(s): 2016-17, 2017-18, 2018-19 Date Goal Entered (Optional): 09/01/2016 Date Goal Archived/Inactivated (Optional): 05/11/2019</p>	<p>Request - Full Funding Requested - Update of computer lab including modern computers, printers and current industry relevant software. Describe Plans & Activities Supported (Justification of Need): Industry training is increasingly more computer based. CBTs are also an excellent format for teaching technical topics within the program. Students would gain familiarization with CBTs and would improve their learning with the use of modern computers, monitors and printers. Lead: David Yost Type of Request: IT SUPPORT: Requests for projects related to the implementation, integration, application, delivery, and support of information and instructional technologies. Planning Unit Priority: High One-Time Funding Requested (if applicable): 20000</p>	<p>Reporting Year: 2016-17 % Completed: 25 Required equipment has been estimated and submitted to the district for future funding. (08/02/2017)</p>
	<p>Request - Full Funding Requested - Acquire an operational autopilot mock-up unit. Describe Plans & Activities Supported (Justification of Need): Knowledge of modern autopilot systems are a required part of the program's FAA curriculum. Students would great increase their knowledge on this system via operation, inspection and repair of this system. Lead: Byron Strobe Type of Request: INSTRUCTIONAL SUPPORT PROGRAM FUNDING (INSTRUCTIONAL EQUIPMENT):</p>	

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
-------------------	-------------------------	---

<p>Equipment, library material, or technology for classroom instruction, student instruction or demonstration, or in preparation of learning materials in an instructional program, equal or over \$500.</p> <p>Planning Unit Priority: High</p> <p>One-Time Funding Requested (if applicable): 75000</p> <p>Request - Full Funding Requested - Alternators, airframe componentry, actuators and pumps.</p> <p>Describe Plans & Activities Supported (Justification of Need): Knowledge of modern aircraft charging systems and airframe components are a required part of the program's FAA curriculum. Students would great increase their knowledge on this system via operation, inspection and repair of this system.</p> <p>Lead: David Yost</p> <p>Type of Request: INSTRUCTIONAL SUPPORT PROGRAM FUNDING (INSTRUCTIONAL EQUIPMENT): Equipment, library material, or technology for classroom instruction, student instruction or demonstration, or in preparation of learning materials in an instructional program, equal or over \$500.</p> <p>Planning Unit Priority: High</p> <p>One-Time Funding Requested (if applicable): 18500</p>	<p>Reporting Year: 2016-17</p> <p>% Completed: 25</p> <p>Required equipment has been estimated and submitted to the district for future funding. (08/02/2017)</p>
<p>Request - Full Funding Requested - Replace Chadwick balancer with an industry relevant unit</p> <p>Describe Plans & Activities Supported (Justification of Need):</p>	<p>Reporting Year: 2018-19</p> <p>% Completed: 100</p> <p>Required equipment has been estimated and submitted to the district for future funding.</p> <p>Balancing equipment has been acquired and is in use.</p>

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
-------------------	-------------------------	---

Knowledge of modern aircraft balancing systems are a required part of the program's FAA curriculum. Students would great increase their knowledge on this system via operation, inspection and repair of this system.
Lead: Byron Strobe
Type of Request: INSTRUCTIONAL SUPPORT PROGRAM FUNDING (INSTRUCTIONAL EQUIPMENT): Equipment, library material, or technology for classroom instruction, student instruction or demonstration, or in preparation of learning materials in an instructional program, equal or over \$500.
Planning Unit Priority: Medium
One-Time Funding Requested (if applicable): 11500

(08/02/2017)

Partnerships - The Department will increase the number of industry partnerships and place more students in work experience environments
Status: Active
Goal Year(s): 2018-19
Date Goal Entered (Optional): 05/29/2019

Delete - Delete
Status: Inactive
Goal Year(s): 2016-17, 2017-18, 2018-19
Date Goal Entered (Optional): 09/01/2016

Request - Full Funding Requested - Describe Plans & Activities Supported (Justification of Need):
 Acquire a power shear to aid in cutting sheet metal for lab projects.
 Power shear
Lead: David Yost
Type of Request: NON INSTRUCTIONAL EQUIPMENT:
 Tangible property with useful life of

Reporting Year: 2016-17
% Completed: 100
 Required equipment has been estimated and submitted to the district for future funding. (08/02/2017)

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
-------------------	-------------------------	---

more than one year, other than land or buildings improvements, equal and over \$500 per individual item. Used for administrative or non-instructional purposes.
Planning Unit Priority: Medium
One-Time Funding Requested (if applicable): 6500

<p>Increase certification. - Increase number of students who attempt and pass the FAA certification exams. Status: Active Goal Year(s): 2016-17, 2018-19 Date Goal Entered (Optional): 07/02/2017</p>	<p>Report directly on Goal</p>	<p>Reporting Year: 2018-19 % Completed: 25 Certification attempts increased about 33% at the end of the 2017-2018 school year. This increase may have been due to financial support given to students in the form of grants. The program will need to continue to monitor this trend. (05/12/2019)</p>
--	---------------------------------------	--

<p>Electrical trainers - Acquire industry relevant analog and digital trainers to fill current shortage. Status: Active Goal Year(s): 2017-18, 2018-19 Date Goal Entered (Optional): 07/02/2017</p>	<p>Request - Full Funding Requested - Acquire analog and digital trainers (4 qty 1810A and 4 qty 1820A) Describe Plans & Activities Supported (Justification of Need): Knowledge of modern digital systems are a required part of the program's FAA curriculum. Students would great increase their knowledge on this system via operation, inspection and repair of this system. 2 qty 1810A and 2 qty 1820A trainers. Lead: David Yost Type of Request: INSTRUCTIONAL SUPPORT PROGRAM FUNDING (INSTRUCTIONAL EQUIPMENT): Equipment, library material, or technology for classroom instruction, student instruction or demonstration, or in preparation of learning materials in an instructional program,</p>	<p>Reporting Year: 2016-17 % Completed: 25 Required equipment has been estimated and submitted to the district for future funding. (08/02/2017)</p>
--	---	---

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
-------------------	-------------------------	---

equal or over \$500.
Planning Unit Priority: High
One-Time Funding Requested (if applicable): 7500

Lab technician position - Hire a part-time evening lab tech to support evening tool crib.
Status: Active
Goal Year(s): 2017-18, 2018-19
Date Goal Entered (Optional): 07/02/2017

Request - Full Funding Requested - Hire a part-time evening lab tech to support evening tool crib.. \$26,000 per school year.
Describe Plans & Activities Supported (Justification of Need): The evening program requires a part-time equipment tech to maintain equipment and control inventory of college equipment/tools. Program is currently funding this position. Position is crucial to program operation.
Lead: David Yost
Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees.
Planning Unit Priority: High
On-Going Funding Requested (if applicable): 27600

Reporting Year: 2016-17
% Completed: 25
 Required equipment has been estimated and submitted to the district for future funding. (08/02/2017)

Part time Career Specialist - Acquire a Part time Career Specialist to assist with work experience placements and employer panels, career fairs, etc.
Status: Active
Goal Year(s): 2018-19
Date Goal Entered (Optional): 05/29/2018

Request - Full Funding Requested - Part time Career Specialist
Describe Plans & Activities Supported (Justification of Need): Specialist to assist with work experience placements and employer panels, career fairs, etc.
Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees.
Planning Unit Priority: Medium
On-Going Funding Requested (if applicable): 55000

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
-------------------	-------------------------	---

Full-time evening professor - Hire and train a full-time professor which will improve student satisfaction and learning in the evening courses.
Status: Active
Goal Year(s): 2018-19
Date Goal Entered (Optional): 06/26/2018

AIRM Lab Repair and Upgrade - Repair, upgrade and modernize AIRM lab furnishing and equipment.
Status: Active
Goal Year(s): 2017-18, 2018-19

Report directly on Goal

Reporting Year: 2019-20
% Completed: 25
 Estimates have been collected for these requested resources. (05/12/2019)

Request - Full Funding Requested -
 Replace all work stools with modern padded stools

Describe Plans & Activities Supported (Justification of Need):
 Stools used by students in lab are 20+ years old, deteriorated and damaged.

Lead: David Yost/ Ryan Bohannon

Type of Request: NON INSTRUCTIONAL EQUIPMENT:
 Tangible property with useful life of more than one year, other than land or buildings improvements, equal and over \$500 per individual item. Used for administrative or non-instructional purposes.

Planning Unit Priority: Medium

One-Time Funding Requested (if applicable): 9700

Request - Full Funding Requested -

Replace shop roll up doors
Describe Plans & Activities Supported (Justification of Need):
 The current roll-up doors are more than 30 years old and are in very

Unit Goals

Resources Needed

Where We Make an Impact: Closing the Loop on Goals and Plans

poor condition. District personnel spend numerous hours and resources troubleshoot and repairing the door. New, non-electric sliding doors would reduce maintenance costs and increase building security.

Lead: David Yost

Type of Request: FACILITIES: This section includes minor building improvement projects and alterations to specific rooms or operational areas.

Planning Unit Priority: Low

One-Time Funding Requested (if applicable): 85000

Request - Partial Funding Requested

- Update Equipment- Acquire power shear for airframe

Describe Plans & Activities

Supported (Justification of Need):

Will aid equipment tech in preparing instruction supplies and will teach students how to operate modern, relevant equipment.

Lead: David Yost

Type of Request: NON

INSTRUCTIONAL EQUIPMENT:

Tangible property with useful life of more than one year, other than land or buildings improvements, equal and over \$500 per individual item. Used for administrative or non-instructional purposes.

Planning Unit Priority: Low

One-Time Funding Requested (if applicable): 4500

Request - Full Funding Requested -

Acquire a new solvent and water based parts wash tank and heated

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>Where We Make an Impact: Closing the Loop on Goals and Plans</i>
-------------------	-------------------------	---

parts washer.
Describe Plans & Activities Supported (Justification of Need):
 Need industry relevant parts cleaning equipment for students to clean lab parts and projects.
Lead: David Yost
Type of Request: NON INSTRUCTIONAL EQUIPMENT:
 Tangible property with useful life of more than one year, other than land or buildings improvements, equal and over \$500 per individual item. Used for administrative or non-instructional purposes.
Planning Unit Priority: Medium
One-Time Funding Requested (if applicable): 19000

<p>Powerplant Trainers - Acquire updated powerplant equipment to replace outdated and damaged accessories, engine mounts, engines and units. Status: Active Goal Year(s): 2018-19</p>	<p>Request - Full Funding Requested - Powerplant accessories, engine mounts, engines and units. Describe Plans & Activities Supported (Justification of Need): Knowledge of modern powerplant and support systems are a required part of the program's FAA curriculum. Students would great increase their knowledge on this system via operation, inspection and repair of this system. Current accessories are outdated and in poor condition. Lead: David Yost Type of Request: INSTRUCTIONAL SUPPORT PROGRAM FUNDING (INSTRUCTIONAL EQUIPMENT): Equipment, library material, or technology for classroom instruction, student instruction or demonstration,</p>	
--	--	--

Unit Goals

Resources Needed

Where We Make an Impact: Closing the Loop on Goals and Plans

or in preparation of learning materials in an instructional program, equal or over \$500.

Planning Unit Priority: Medium

One-Time Funding Requested (if applicable): 8000