

1. Assessment Plan - Three Column



PIE - Technology & Health: Aeronautics Unit

<i>Unit Goals</i>	<i>Resources Needed</i>	<i>1. Where We Make an Impact: Closing the Loop on Goals and Resources</i>
<p>Technology - Staying on the forefront of technology Status: Active Goal Year(s): 2016-17, 2018-19, 2019-20, 2020-21 Date Goal Entered (Optional): 09/01/2016</p>	<p>Request - Full Funding Requested - Unmanned Aircraft Systems (UAS - drones) simulation and aircraft - Aeronautics *Describe Plans & Activities Supported (Justification of Need): This request will be needed starting the 2021 Fall semester as the Strong Workforce grant is completed. No specific requests at this time. *Lead: Robert Rogus What would success look like and how would you measure it?: District funding to replace Strong Workforce funding Type of Request: 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): 15000 On-Going Funding Requested (if applicable): 25000 Total Funding Requested: 40000</p>	<p>Reporting Year: 2018-19 % Completed: 25 The new program began in Fall 2018 and more resources have been identified. This is an ongoing request to stay on the forefront of the Unmanned Systems industry. (05/10/2019)</p>
		<p>Reporting Year: 2017-18 % Completed: 50 This project has come under the Strong Workforce Initiative Program. Some of the equipment has been funded and some has been funded, but not available until July 2018 through June 2019. (05/07/2018)</p>
	<p>Request - Partial Funding Requested - Used aircraft for primary and</p>	<p>Reporting Year: 2018-19 % Completed: 0</p>

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	<p>instrument training to meet student demand.</p> <p>*Describe Plans & Activities Supported (Justification of Need): The Aero department is growing in all programs (Commercial Flight, Aviation Science, Aircraft Dispatcher and our new program in Unmanned Aircraft) with new faculty and students. More students enrolling in all programs are deciding they want to learn to fly to get more skills and be more employable so more aircraft are needed. The used aircraft will be built after 1998 to expand our fleet and to slow down the flight hours on the current airplane fleet and therefore, increase the longevity of the current fleet. In addition, we have not been able to meet the student demand for flight training due primarily for lack of aircraft. This purchase would expand opportunities for our students and allow more students and veterans to enter the program. The purchase would be an investment for many years. The Aero department and the flight training account has been saving money to purchase another aircraft sometime in the future. Currently, we have over \$100,000 and would put this toward district funding to make it more affordable.</p> <p>*Lead: Linda Rogus</p> <p>What would success look like and how would you measure it?: Increase the number of students in the flight training program to meet the</p>	<p>The purchase of a used aircraft is still an immediate and critical need. We are continuing to turn away students from the flight training based partly on the lack of airplane availability. (05/10/2019)</p> <hr/> <p>Reporting Year: 2017-18 % Completed: 0</p> <p>This used airplane purchase has not been funded. We are currently turning away 30-60 students per year since the current aircraft are over-utilized. A used airplane is cost effective, has a long life, and could immediately be utilized. (05/07/2018)</p>

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increased need.

Type of Request: 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: High
One-Time Funding Requested (if applicable): 120000
On-Going Funding Requested (if applicable): 10000

Total Funding Requested: 130000

Request - Full Funding Requested - Unmanned Aircraft (UAS) Netted Facility

***Describe Plans & Activities Supported (Justification of Need):**
Using a netted facility would allow drone classes to be taught at night, would give the program a safe location to test aircraft without risk of flyaway.

This facility would provide a safe area for the Drone Technician to test updates and repairs. This area could also be used as a training area for Mt. SAC employees. STEM programs would benefit when hosting high-school partners.

This facility protects the college and minimizes risk in several ways: 1) FAA flight rules are moot inside a netted facility ; 2) Risk of damage to persons or property are minimized; 3) Risk of "fly-away" drones is eliminated.

Reporting Year: 2018-19

% Completed: 0

This remains a critical need of the department since currently we are having to spend a lot of money each year to rent and off-site space to fly. (05/10/2019)

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The ideal facility would be a 300' by 120' drone cage (golf course height - 85') with a black net that would enclose the space. The minimum height must be 50 feet, while the other dimensions are negotiable. ADA compliant sidewalks, ramps, and lighting, should be installed.

***Lead:** Robert Rogus

What would success look like and how would you measure it?:

Students, faculty, and staff would have an enclosed flying area for night flying, test flying, and a space to fly at night legally.

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

Planning Unit Priority: Medium

One-Time Funding Requested (if applicable): 450000

On-Going Funding Requested (if applicable): 5000

Total Funding Requested: 455000

<p>Access for Students - Support student access to department programs and services Status: Active Goal Year(s): 2016-17, 2018-19, 2019-20 Date Goal Entered (Optional): 09/01/2016</p>	<p>Request - Full Funding Requested - Support for student tutors and simulator lab assistants - Aeronautics *Describe Plans & Activities Supported (Justification of Need): During the last several years we have been funded by the TERC, while other years we were funded through PERKINS. However, this year all funding has been denied.</p>	<p>Reporting Year: 2018-19 % Completed: 25 The support for student tutors and simulator lab assistants has not been consistent. Each year the department has to apply to many different grants and areas that funding may be available. The department needs consistent funding each year to assure student success and faculty can rely on funding to make class content decisions. (05/10/2019) <hr/> Reporting Year: 2017-18 % Completed: 0 This is an urgent need. We have been funded through the Perkins grant for tutors for the last several years. We have</p>
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Aeronautics is the 3rd highest producer of A.S. degrees (over 108), with over 500 students enrolled and growing. And, we have a new certificate and degree program to support as well. Student tutoring is of critical importance for student success and makes a difference in persistence, retention, and success rates. The majority of those served are from special populations (economically disadvantaged) and non-traditional students.

***Lead:** Linda Rogus

What would success look like and how would you measure it?:

Aeronautics students would be able to meet with an aviation tutor and would see a difference in persistence, retention, and/or success rates.

Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees.

Planning Unit Priority: Urgent

One-Time Funding Requested (if applicable): 10000

On-Going Funding Requested (if applicable): 10000

Total Funding Requested: 10000

Request - Full Funding Requested -

- Marketing Materials:
- Brochures and handouts
- Canopy
- Banners
- Static Models
- Multimedia display

***Describe Plans & Activities**

Supported (Justification of Need):

Aeronautics has two new certificate

lost our funding beginning fall 2018. We are the largest users of the Tech Ed. Resource Center (TERC) and have four days of coverage and about 30 hours per week during the primary semesters of fall and spring. We need the funding assured through the college since it is necessary for student success and getting our students through the aviation programs. (05/07/2018)

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and degree programs plus existing programs that are in need of marketing materials for advertising and educational outreach. Our Aviation Ambassadors participated in over 25 events the past two semesters.

***Lead:** Linda Rogus

What would success look like and how would you measure it?:

Marketing materials equivalent to High School Outreach type materials

Type of Request: MARKETING:

Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media.

Planning Unit Priority: High

One-Time Funding Requested (if applicable): 5000

Request - Full Funding Requested -
35mm Slide Conversion to Digital Images

***Describe Plans & Activities**

Supported (Justification of Need):

Create an electronic archive of the 10 year history of the Mt. SAC Classroom in the Sky - a 1960's and 1970's campus wide educational project using United Airlines jet aircraft and Mt. SAC faculty to combine aviation with other STEM subjects. Mt. SAC students and faculty flew "Around the World" the last year of Classroom in the Sky. This program received local and national attention including Channel 5 Hal Fishman, who flew around the world with the college. This is an important historical event that

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needs to be preserved digitally since the 35mm slides are archived but deteriorating.
***Lead:** Robert
What would success look like and how would you measure it?:
 Conversion by professional company such as Costco or other specialty company.
Type of Request: MARKETING:
 Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media.
Planning Unit Priority: High
One-Time Funding Requested (if applicable): 500

<p>Flight Training Facility - Facility improvements that maximize student learning Status: Active Goal Year(s): 2016-17, 2018-19, 2019-20 Date Goal Entered (Optional): 09/01/2016</p>	<p>Request - Full Funding Requested - Modular Building for College Aviation for additional classroom space, quiet space for one-on-one instruction, and a climate controlled room for flight simulators. *Describe Plans & Activities Supported (Justification of Need): The current facility has no quiet space for instruction, nor does it have a dust-free climate controlled space to install flight simulators. The facility as it is today is a single room plus one office and a bathroom. This single room is shared by 6 instructors, plus students, and is also a reception area. The instructors are using the single storage closet as a quiet space for one-on-one instruction. This project was previously approved; then, cancelled because the lease ran only until year</p>	<p>Reporting Year: 2018-19 % Completed: 0 This request is of high importance and critical to our flight training facility and instruction. The department is working on negotiating a longer lease with Brackett Airport and Los Angeles County. (05/10/2019)</p> <hr/> <p>Reporting Year: 2017-18 % Completed: 0 This project is outdated and closed- after analysis by facilities the project was not viable inside the existing hangar. (05/07/2018)</p>
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2025. We are in the process of getting the lease extended to 2035. This is a temporary solution as a new facility should be built at Brackett Airport to sustain the programs.

***Lead:** Linda Rogus

What would success look like and how would you measure it?: The facility would allow more students access to the flight training center and would allow us to offer classroom instruction to help with the campus classroom restrictions.

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

Planning Unit Priority: High

One-Time Funding Requested (if applicable): 200000

On-Going Funding Requested (if applicable): 20000

Total Funding Requested: 220000

Faculty and Support Staff - Increase the effectiveness of department learning objectives and program initiatives

Status: Active

Goal Year(s): 2016-17, 2017-18, 2018-19, 2019-20, 2020-21

Date Goal Entered (Optional): 05/31/2019

Request - Full Funding Requested - Part-time Administrative Assistant. Amount of funding requested is an estimate.

***Describe Plans & Activities Supported (Justification of Need):** The Aeronautics department is growing significantly with new full-time faculty, adjunct faculty, Aero Lab technician, and new programs. There is more administrative work than ever before, with the budget and management of the budget significantly increased, as well as supervision of 20 student workers in

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many capacities, plus constant tasks at the off-site flight training facility at Brackett Airport. We are in a growth mode, are adding more sections and classes, and participating in more grants that need our attention. The amount of student inquiries has significantly increased which is ongoing throughout the school year and into the summer. The department does get some administrative support but on a workload basis not on a dedicated basis.

***Lead:** Linda Rogus
What would success look like and how would you measure it?: The department is growing in students, faculty, classes, and programs. The department co-chairs cannot keep up with all the student inquiries and requests and keep up all the other department needs, demands and requirements. The budget has and will increase starting Fall 2019 and more assistance is needed. We are also participating in more grants and that needs more support.
Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees.
Planning Unit Priority: High
On-Going Funding Requested (if applicable): 30000
Total Funding Requested: 30000

Partnerships - Explore partnership opportunities
Status: Active
Goal Year(s): 2016-17, 2018-19,

Request - Full Funding Requested - Travel funding - FAA AT-CTI Program
***Describe Plans & Activities Supported (Justification of Need):**

Reporting Year: 2018-19
% Completed: 0
 The travel request to the FAA AT-CTI program is still needed each year. The department requests an on-going fund to

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<p>2019-20</p> <p>Date Goal Entered (Optional): 09/01/2016</p>	<p>The FAA AT-CTI Program partnership is active and participation in the yearly FAA AT-CTI Conference is a requirement of the program. We are requesting on-going funding for two faculty to attend the conference yearly.</p> <p>*Lead: Robert Rogus</p> <p>What would success look like and how would you measure it?: This is an annual requirement for our partnership with the Federal Aviation Administration to train Air Traffic Controllers. We continue to be the only college or University in the social area and only two in the entire state.</p> <p>Type of Request: OTHER OPERATING EXPENSES AND SERVICES: Requests for contracted, legal/ audit, personal/ consultant, rent/ leases, repairs/ maintenance, and other misc. services. May also include request for travel and conference that does not require the assistance of POD.</p> <p>Planning Unit Priority: High</p> <p>On-Going Funding Requested (if applicable): 4000</p> <p>Total Funding Requested: 4000</p> <p>Request - No Funding Requested - Mt. SAC Foundation - Foundation Employee dedicated to serving Technology & Health Division</p> <p>*Describe Plans & Activities Supported (Justification of Need): Aeronautics department supports the Mt. SAC Foundation initiative of hiring a dedicated employee to serve the Technology and Health Division in support of fundraising and alumni initiatives. The Foundation asked for</p>	<p>assure participation of faculty in this important partnership to train Air Traffic Controllers. We are only one of two colleges or Universities in the state of California that has this partnership. (05/10/2019)</p> <p>Reporting Year: 2018-19</p> <p>% Completed: 0</p> <p>This initiative is still requested. With thousands of Mt. SAC AERO/AIRT graduates in the aviation industry, we need to connect with our graduates. We need assistance from the Mt. SAC Foundation to move forward in our connection with alumni. (05/10/2019)</p>

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our department to include the request in our PIE to show program support of the Foundation initiative.

***Lead:** Linda Rogus

What would success look like and how would you measure it?: Increase the effectiveness of the Foundations outreach to Aeronautics alumni

Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees.

Planning Unit Priority: High

One-Time Funding Requested (if applicable): 0

On-Going Funding Requested (if applicable): 0

Total Funding Requested: 0