EQUIPMENT NEEDS ASSESSMENT APPLICATION
Fall 2019

Name of Person Submitting Request:	Tarif Halabi
Program or Service Area:	Aeronautics
Division:	Applied Technology, Trans.& Culinary Arts
Date of Last Program Efficacy:	**Spring 2018 mini review**
What rating was given?	**Continuance**
Equipment Requested	**Hydraulic Landing Gear System**
Amount Requested:	**$22,000**
Strategic Initiatives Addressed:	2, 4
Needs Assessment Resources (includes Strategic Initiatives):	https://www.valleycollege.edu/about-sbvc/campus-committees/academic-senate/program-review/needs-assessment.php

NOTE: To facilitate ranking by the committee, submit separate requests for each item; however, multiple items can be submitted as one request if it is required that the equipment is packaged together.

Replacement ☐   Additional x

Are there alternative funding sources? (for example, Department, Budget, Perkins, Grants, etc.)

Yes x   NO ☐

If yes, what are they? Strong Workforce, Perkins

1. Provide a rationale for your request. (Explain, in detail, the need for this equipment.)

The aeronautics courses are in need of an aircraft landing gear and flight control retraction system mock-up. Currently students raise actual aircraft off the ground to learn how to operate, troubleshoot and repair the systems. The process of raising the aircraft takes time away from the students when they can be working other projects. The mock-up is a standalone unit that is literally plug and play. It is built for demonstrating system operation and troubleshooting. The mockup would add a great benefit to the Aeronautics program as it may be used at any time with no pre-planning.

2. Indicate how the content of the department/program's latest Efficacy Report and/or current EMP supports this request and how the request is tied to program planning. *(Directly reference the relevant information from your latest Efficacy Report and/or current EMP in your discussion.)*

The current EMP supports this request for landing gear mock-up as necessary for the success of the program. The current EMP shows the student population increasing every year, with duplicated enrollment of 656 from 415. This number does not include our current semester growth.
The mock-up serves the department well in so far as the additional amount of students. It allots instructors to work this project without having to plan for moving and raising aircraft which takes up to 4 to 6 hours to set up and additional 2 to 3 hours to break down after the demos.

3. Indicate any additional information you want the committee to consider *(for example, regulatory information, compliance, updated efficiency, student success data, planning, etc.).*

As the program is regulated and certified through the Federal Aviation Administration (FAA) it requires for students to work on a predetermined amount of projects with a set amount of hours. The mockup would allow the program to use student hours for the required FAA projects and not use them for setting up aircraft for demos.

4. Indicate any related costs (including any ongoing maintenance or updates) and department/program's plans to support those costs.

No ongoing costs or maintenance are required for this mockup. The mockup is built for students to be able to troubleshoot and repair it. Only cost could be the initial purchase

5. What are the consequences of not funding this equipment?

The consequences of not funding this equipment is lower enrolment to the program as students become frustrated with the lack of equipment required for their education.