

EQUIPMENT NEEDS ASSESSMENT APPLICATION
Fall 2016

Name of Person Submitting Request:	Lorrie Burnham
Program or Service Area:	Biology
Division:	Science
Date of Last Program Efficacy:	Spring 2013
What rating was given?	Continuation
Equipment Requested	Spirogram Machines
Amount Requested:	\$10,803.35
Strategic Initiatives Addressed: (See http://www.valleycollege.edu/about-sbvc/office-of-president/college_planning_documents/documents/strategic-plan-report-working-doc-8-25-15-2.pdf)	Strategic Goals of Student Success #2: 2.6.2; 2.6.3; 2.6.3.1 and .2; 2.6.5

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

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

Yes NO

If yes, what are they? _____

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

Currently, Human Physiology has four spirometry machines and these machines are at least fifteen years old, and they are starting to wear out electrically. In 2009, funding was approved to purchase these machines for Human physiology and they were not purchased, so we have been asking to replace these machines for six years. These machines are required to collect lung function data that students have to interpret for lab, exams and for their allied health careers. As the machines begin to wear out electrically the waveforms get noisy and they are hard to interpret. When the machines wear out permanently they can no long be used for collecting data; they flat-line. It is critical that students know how to measure, understand and evaluate spirometers before they get into their clinical professional programs. In addition, spirometer machines are what students will be using clinically and universally around the world. Although these machines are expensive initially, they are virtually indestructible and they do not require software updates or maintenance once purchased and they can be shared among the Anatomy and Physiology courses. In addition, the Human Physiology yearly budget is very minimal compared to most of the courses in the division because we use ourselves as the experiment.

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 2014 Program Efficacy document, Planning Section, p17-18 illustrates the high demand for Registered nurses. 2014 EMP, Program goals, plan for re-expansion.

Any lab experiment listed in the aforementioned courses that rely upon studying and testing respiratory function will require these pieces of equipment. Therefore, the necessity of spirometers can be linked to any laboratory COR items where respiratory function is tested.

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

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

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

We have two functional machines out of the four machines. The other two machines are falling apart. One of the poorly functioning machines buttons are broken and hard to depress and the other machine's waveforms are unstable and inaccurate to interpret. The consequences of not funding this equipment means that we will not have enough spirometer machines to replace the older worn out machines as they fail and students will not be able to examine the respiratory physiology of the body. Students need to perform this lab to understand respiration and breathing patterns.