

EQUIPMENT NEEDS ASSESSMENT APPLICATION

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| Name of Person Submitting Request: | Mark Ikeda |
| Program or Service Area: | Biology |
| Division: | Science |
| Date of Last Program Efficacy: | Spring 2009 |
| What rating was given? | Expansion |
| Equipment Requested | Micropipettes |
| Amount Requested: | \$5,512.50 |
| Strategic Initiatives Addressed: | Student Success, Technology |

1. Provide a rationale for your request.

Microbiology courses are dependent upon equipment that can precisely and accurately dispense very small volumes of liquids as part of performing *routine* experiments that are an integral part of the microbiology lab course work. Micropipettes are standard pieces of lab equipment that the students taking microbiology will encounter in many of the professional laboratory settings for which they are receiving training.

2. Indicate how the content of the latest Program Efficacy Report and/or most current EIS data support this request. How is the request tied to program planning? (*Reference the page number(s) where the information can be found on Program Efficacy.*)

Data acquired from EIS Science Division summary sheets indicates enrollment in Biology 270 @ census in the following numbers (SP12 = 140, F12 = 149, F11=140, S11= 180, F10= 142).

The 2009 Program Efficacy document (p7 Allied Health Prep # of students) illustrates the high percentage fill rate for Allied Health Prep Program and large numbers of enrolling students.

The use of micropipettes is referred to, directly and indirectly, in many of the laboratory topics listed in the current COR for Microbiology (Biology 270).

Historically, microbiology is the first course to close of courses in the Allied Health Prep track which is another indicator of the demand for this particular course.

3. Indicate if there is additional information you wish the committee to consider (*for example: regulatory information, compliance, updated efficiency and/or student success data or planning etc*).

4. Evaluation of initial cost, as well as related costs (including any ongoing maintenance or updates) and identification of any alternative or ongoing funding sources. (for example Department Budget, VTEA or Perkins)

The equipment requested is for 18 of micropipettes capable of dispensing a range of microliter samples. There are no other sources of funding for this request.

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

1) The inability to learn the proper use of a standard piece of laboratory equipment found in all professional areas that microbiology students will encounter, 2) the inability to perform required microbiology experiments, 3) a break with the current requirements of the COR for the Microbiology class.