

EQUIPMENT NEEDS ASSESSMENT APPLICATION
Fall 2015

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	Microscopes
Amount Requested:	\$390,000
Strategic Initiatives Addressed: (See Appendix A: http://tinyurl.com/15oqoxm)	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

1. Provide a rationale for your request.

The Biology Department's microscopes are the most commonly used pieces of scientific equipment in the department. They provide the versatility that allows students to perform qualitative and quantitative analysis of a diversity of life that cannot be encountered by any other means. The importance of microscopes to biology might be illustrated by equating them to brushes in a painting class, works of literature in English courses, or glassware to chemistry. The life expectancy of the microscopes is 10 years. The scopes in the biology department were purchased in 1998.

2. Indicate how the content of the latest Program Efficacy Report and current EMP 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.*)

The use of microscopes is identified explicitly and implicitly in COR's lab activities for Biology 100, 109, 155, 201, 202, 250, 251, 270. Assuming 6hrs of microscope (conservative estimate) use by each of these students, the department's microscopes accrue a per semester average use of 12700 hours, which works out to approximately 70 hours of use per microscope.
 2013 Efficacy Report, p6, Pattern of service.
 2015 EMP, Program goals, plan for re-expansion.

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

The amount requested is to be used to purchase microscopes in the Biology Department.

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

Without funding these laboratory resources, many courses will discontinue or be inadequate in training students for transfer to four-year universities and professional schools. The efficacy of the Department's laboratory courses is based on the availability of supplies and equipment.