EQUIPMENT NEEDS ASSESSMENT APPLICATION

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	**Histology Slides**
Amount Requested:	**$5216.54**
Strategic Initiatives Addressed:	Student Success

1. Provide a rationale for your request.

The microscopic study of human body tissues (Histology) is important for students taking human anatomy and physiology courses for several reasons; a) these microscopic structures are the foundation for many larger anatomical structures (organs, organ systems) in the body, b) they are components of the body that demonstrate a connection to disease related structural changes to students, c) they provide an opportunity for appreciating the biological diversity among individuals within a population, and d) they represent an opportunity for students to familiarize themselves with the use of microscopes in a manner similar to their experiences in a clinical setting.

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.)*

The courses that would use these items would primarily be the following; Bio 155, 250, 251. Data derived from the from EIS Science Division summary sheets for academic years '10-'11,'11-'12, and Fall of '12 indicates annual enrollments in the biology courses listed above averages approximately 586 students.

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 in the courses listed above.

The laboratory CORs for the courses identified above all include concepts that can be directly addressed by the availability of representative group of tissue histology slides. Many of the course SLOs are connected with an understanding of the structural characteristics of the different tissue types.

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 tissue samples come from an array of 32 distinct tissues and organs that are most commonly studied in the courses listed above. These slides represent a combination of those required to replace broken or missing slides, as well as some tissue slides to fill gaps in our current collection of tissue sample slides.

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

The current collection of human tissue slides in the Department is declining due to the attrition associated with their use. Without these slides the rationale items c) and d) listed above are simply not possible, weakening the students pre-professional training.