

FACILITIES NEEDS ASSESSMENT APPLICATION
Fall 2015

Facilities: Programs should list no more than three facility or renovation items. Identify the area in need of physical renovation, maintenance and/or repair. Requests for additional space should also be listed here. *Requests listed in this category will be forwarded to the Facilities Committee to evaluate through their own processes.* Provide a thorough rationale, **using data to support your request**, in order to help the Facilities Committee with their evaluation. List the approximate cost of your request.

Name of Person Submitting Request:	Lorrie Burnham
Program or Service Area:	Biology
Division:	Science
Date of Last Program Efficacy:	2013
What rating was given?	Continuation
Strategic Initiatives Addressed: (See Appendix A: http://tinyurl.com/15oqoxm)	Goal 6 – Facilities (support maintenance of safe, efficient, and functional facilities) 6.2 – Maintain a safe and secure environment 6.4 – Continue with facilities improvement plan Goal 2 – Student success 2.5 - Improve performance 2.6 - Increase student success

Replacement Growth

1. Renovation Request

This request is to replace the current lighting design/system serving our large lecture rooms (HLS 134 and 135) and other areas (e.g, stockrooms, chemical prep rooms, tissue culture room) of the second floor in the HLS building (HLS rooms: 239 243, 244, 208, 216, 217, 215, restrooms). Some of the areas are educational facilities that serve a large number of students in Biology, Chemistry, and other departments across campus. The lecture rooms support over 60 students with remarkably poor illumination. Other critical working environments such as chemical stockrooms and laboratory preparation rooms are also impacted.

Unfortunately, the original lighting design of this building has never been up to standard for its purpose and the faculty never approved it (pers comm M Ikeda). Since the construction of the HLS building, several requests have been made on this matter. Through proposition 39, California voters have decisively agreed that our school buildings need to be retrofitted; “to make sure these buildings meet the basic goals of providing safe and healthy learning environments” (Report Prop 39, focus.senate.ca.gov).

For areas that require safety and frequent visual tasks, the standard recommended is at 50-100 foot candles. In comparison, workrooms in the PS building are above this number. The HLS areas have an illumination power much below design standards. The current illumination ranges between 15-25 foot candles. When lighting is this reduced, problems with safety are more likely to rise. It also creates difficult environments for those already visually challenged. As in most science-related areas, staff and students work with chemicals, read labels, set special lab equipment, and conduct tasks using sharps.

Furthermore, in lecture areas it is essential that students perform specific tasks to learn such as read the board, read their textbooks, and have the ability to write and see their writing. But these simple tasks are threatened every day, every semester. We teach students with learning disabilities in an environment not favorable for their education. Moreover, inappropriate lighting increases hazardous walking conditions for slipping, tripping, and falling. These hazards are not only for students but also for faculty and classified staff working in these very dim environments.

Visual and learning performance, and safety have been compromised for too long in the HLS building. This request aims to improve safety of all employees and students. Additionally, a modification to the design will benefit the institution in the long-term because a new lighting design can lower the utility costs in these areas that are of high-energy demand. Retrofitting the lighting will also help comply with codes and standards (Illuminating Engineering Society).

Approximate Cost: *UNKNOWN*

2. Renovation Request

Approximate Cost:

3. Renovation Request

Approximate Cost: