TECHNOLOGY NEEDS ASSESSMENT APPLICATION
Fall 2015

Technology: Programs should list the technology needed to provide ongoing service or instruction, and an approximate cost of the request. *Technology that is listed in this category will be forwarded to Campus Technology Services to evaluate through their own processes.*

Name of Person Submitting Request:	**Jessy Lemieux and Michael Torrez**
Program or Service Area:	**Chemistry**
Division:	**Science**
Date of Last Program Efficacy:	**2011**
What rating was given?	**continuation**
Amount Requested:	**$8,554**
Strategic Initiatives Addressed: (See Appendix A: http://tinyurl.com/l5oqoxm)	1.114 Make better use of web content for online and traditional courses

Replacement ☐ Growth X

1. **You are required to meet with Rick Hrdlicka – Director of Campus Technology Services prior to submitting a Technology Needs Request. 909-384-8656 or rhrdlicka@sbccd.cc.ca.us. Please provide the date and time of your meeting.**

10/13/2015, 4PM through email and phone calls.

2. Projects that require modification to Buildings or Rooms will require a Facilities Need Request. Will this project require facilities changes?

None

3. What technology-based equipment or software are you requesting?

Class set of Windows 8 tablets specifically for student use during instruction within the classroom or lab.

4. 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.)*

Page 13. Will allow for easy access to web content in the classroom.

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

Usage of tablets will allow for introduction of multiple software enhanced instructional opportunities including the following examples:
1) Monitoring and correction of student practices in time-sensitive laboratory settings. Software can read student input for laboratory measurements and alert student and teacher to critical errors that might otherwise be missed until after the experiment is completed.
2) Three dimensional visualization of molecular processes that can be manipulated by students for interactive experiences.
3) Real-time feedback on classroom student exercises. Software can read student responses and identify common error types and offer feedback tailored to a specific error that a student has

made.

6. Provide a complete itemized list of the 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.*)

26 tablets at a cost of $329 each

7. What are the consequences of not funding this request?

Students require constant interaction in conceptual learning and problem solving of chemistry related material for effective learning and might struggle without a digital medium to interactively help them with their learning. This technology allows efficient, instructor lead, student learning of interactive digital content in both lecture and lab rooms without the need for new, expensive, maintenance requiring laptops for our growing population of chemistry students.