

Section A:

Name of Requestor: Robb Sinn

Date of Request: 24-Jan-08

Semester of Implementation: Fall 2008

Project Title: iClick

Description of Request: As precisely and completely as possible, indicate exactly what you are requesting, i.e. computers, printers, scanners, other forms of hardware, or software. Include the cost of each item, required specs and other supporting details. Indicate whether the request is for new equipment/software or to upgrade existing equipment/software.

In 2005, Robb Sinn and Dianna Spence arranged for NGCSU to be part of a field testing experiment for W. H. Freeman's "iClickers," a student-response system for classrooms (get more information at iClicker.com). Students use the iClickers to respond to multiple choice questions during class. The iClicker technology is extremely user-friendly both for students and faculty. Both Robb and Dianna have experimented with using the iClickers every class day for certain courses, even taking attendance with them.

For Robb's and Dianna's participation, NGCSU's Math/CS department received an Equipment Grant from Freeman that included 100 iClicker Student Remotes and 2 Instructor Kits. An Instructor Kit includes the iClicker transmitter base, a USB cable, Instructor Remote, a flash drive and all communication and instructor software programs. The iClicker system connects seamlessly to any classroom computer with an available USB port. The iClicker Student Remotes cost \$26.50 each. An Instructor Kit costs \$185. The retail value of the Equipment Grant was \$3,020. The Math/CS department has continued to provide batteries and other upkeep cost for these two classroom sets of iClickers. In the past two years, five Math/CS professors have tested the iClicker system in various classes, mostly service courses in the core curriculum. Because the department owns the iClickers, multiple classes of students can use the same iClickers with no charges to the student and no inconvenience to faculty or students.

Therefore, the Math/CS department would like to purchase 4 additional classroom sets of iClickers which, after adding the 2 sets we currently own, would make one set available for each of the 6 Math/CS classrooms and teaching labs: NOC 205, 206, 207, 208, 209 and 210. Using a bulk purchase discount, the Math/CS has obtained a quote to purchase 200 iClicker Student Remotes and 4 iClicker Instructor Kits for \$5,670 (\$350 discount). The Math/CS department would be able to contribute \$1,500 to the project (plus the already-acquired sets) and will undertake the ongoing costs of providing batteries and equipment replacements when needed.

Equipment Grant	\$3,020
Math/CS Shared-Cost Contribution	\$1,500
Student Tech Fee iClick Project	<u>\$4,170</u>
Total Equipment Value	\$8,690

This tiny one-time technology purchase will make a great learning system available to virtually every MATH, MAED and CSCI course taught at NGCSU. We are aware of another "Student Response System" project on campus where NGCSU "adopted" a standard Student Remote different than iClicker. We were already using the iClickers when that project was initiated, and we offered our opinions to that committee. Our plan is far more cost-effective for NGCSU students and better for the Math/CS department than the university-sponsored project. The total request is for \$4,170 from the Student Technology Fee Fund which will provide approximately half of the total equipment acquired.

How will the requested technology support the education of NGCSU students?

A survey showed that both faculty and students believe the iClickers improve student interest, engagement and learning. The iClicker sessions are used primarily to help review important topics and for students to get quick,

anonymous feedback about their performance. They quickly know what areas they need to review in detail for quizzes and tests.

Indicate who will have use of the requested technology and the approximate number of students involved.

Each Math/CS classroom will be equipped with its own iClicker system allowing 6 – 10 entire classes of 30 or more students to use a single iClicker set each day. Therefore, any faculty who teach on the Math/CS hallway of NOC will have the iClickers available. Because the USG/NGCSU core curriculum requires at least two MATH/CSCI courses, this project has the potential to benefit every single student at NGCSU for at least the next decade (estimated lifetime of the equipment), or approximately 50,000 current and future NGCSU students.

Signature of Requestor: _____

Date: _____

Section B:

If the requested technology will be housed in a particular department or program, the department head or program director must complete and sign this section.

What are your projections of the annual cost of maintenance and supplies? (i.e. Lab assistants, paper and toner, software licensing, etc.)

We anticipate between \$100 and \$200 per semester ongoing replacement cost, virtually all of that total going to purchase new AAA batteries.

How will you allocate the necessary funds for maintenance and supplies?

I will absorb all maintenance/replacement costs into the operating budget of the Department of Mathematics & Computer Science. I believe the estimate of this cost at around \$100 to \$200 per semester is realistic and accurate, and we can readily finance this cost out of existing departmental funds for such a worthwhile technological supplement to our curriculum.

What security procedures will be implemented for this technology?

As is the case with the two classroom sets of iClickers we now have, the new equipment will be kept in a locked closet in each classroom. Additionally, we lock all of our classrooms at the end of each day. All the faculty members in the Department have keys to the classrooms and the closets.

Department: Math/CS

Head/Director signature: _____

Date: _____

Submissions must be received in at least electronic form by midnight, Friday, January 25, 2008 for consideration in this round of requests. The Student Technology Fee Committee will meet on Monday, January 28, 2008 from 3-5 pm, in the bottom floor Library Seminar room. If you submit a funding request, you may be asked to attend the meeting, as a guest, to answer questions regarding your request. If you have questions, contact: Carol Huczek, Administrative Assistant to the CIO, chuczek@ngcsu.edu, 706-864-1814.