

## **Replacement of Computer Science laboratory equipment and additional Computer Literacy Lab**

### **Report prepared by Dr. Stephanie Smullen, Computer Science**

This purpose of this 2003 Technology Fee Proposal was to replace laboratory computers and printers in EMCS 326 and add an additional Computer Literacy Lab in EMCS 202.

The EMCS 202 laboratory is used for CPSC 110, Computer Literacy. Twenty-four sections of the course were offered in the Fall 2003, Spring 2004 and Summer 2004. These courses served about 450 students. The lab in EMCS 220 was in use from 8 am until 9 pm Monday through Thursday and 8 am until 5 pm on most Fridays. The computers in EMCS 202 are used by students needing time outside of their lab time to complete their work. Dell computers (16) were purchased at a cost of \$18,400 for this Computer Literacy laboratory. Eight tables to hold the computers were purchased at a cost of \$3,811.76.

A total of \$22,211.76 was spent for the benefit of students taking CPSC 110. The equipment is expected to be in use for at least 3 years. Since the machines were purchased in the Spring 2004, they should remain in use through the 2006-7 academic year. The annual cost of this lab equipment is about \$17,404. The cost per year for a student for the lab for those who take the CPSC 110 course is \$15.92. ( $\$17,404/465$  students per year). This is less than the \$30-\$36 student Technology fee charged for a 3 hour course.

The EMCS 326 laboratory is used as a laboratory for Computer Science introductory programming courses. Nine sections were offered in the laboratory during Fall 2003 and Spring 2004. These courses served about 111 undergraduate students, majors in Computer Science and other fields. When the room was not scheduled for a lab it was used as an open lab by the students.

Dell computers (25) were purchased at a cost of \$42,050.88 for the EMCS 326 Computer Science major laboratory. Tables had been previously purchased for the equipment. The furniture was moved to EMCS 326 from Grote 208. These computers are expected to be in use for at least 3 years, through the 2005-6 academic year. The cost of this lab per student is:  $\$42,050.88/3 \text{ years}/111 \text{ students} = \$126.28$  per Computer Science student per year.

Three printers were purchased for the Computer Science department's laboratories at a cost of \$3,849.79. These printers are in EMCS 306, 326 and 220. The total amount requested was \$72,900. The total spent was \$68,112.43 leaving a balance of \$4,787.57. The discrepancy is due the much lower than estimated cost of the computers for EMCS 202.