TECHNOLOGY NEEDS ASSESSMENT APPLICATION

Technology: Programs should list the technology needed to provide ongoing service or instruction, and an approximate cost of the request. Requests for one-time programmatic equipment should be listed in the appropriate category above. *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:	**Susan Bangasser**
Program or Service Area:	**Pharmacy Technology and Geographic Information Systems**
Division:	**Science**
Date of Last Program Efficacy:	**Spring 2011 (PHT) and Fall 2011 (Geography and GIS)**
What rating was given?	**continuation**
Amount Requested:	**$45,000**
Strategic Initiatives Addressed:	Student success and access

Replacement ☐   Growth ☐X

1. What technology equipment are you requesting?

The two programs are requesting 30 laptop computers and 2 carts to hold them.

   Pharmacy Technology (PHT) uses a chemistry lab for the lab component of the PHT classes. The instructors frequently use the chemistry lap tops, but they are not always available. The computers are integral to developing the PHT skills. They would be used in the chemistry lab for pharmacy tech students and the instructor would not need to reschedule activities due to a lack of computers.

   Geographic Information Systems (GIS) is a computer based course and has a computer lab. Limited lab space has historically made scheduling concurrent GIS classes difficult. The addition of these laptops would enable concurrent classes to be taught. Also, the computer lab is used more and more by nursing for exams, since they are incorporating computer exams to prepare nursing students for their national exams. With laptops available for GIS, other classrooms can be used. Another lab used by Architecture has classes in the day, evenings and weekends, so is infrequently available. Lack of funding for GIS tutors means that even if the lab space is available, there isn't dedicated support for our GIS students. One of the many benefits laptops could provide would be to enable students to use the laptop computers in the GIS faculty office, so that support can be provided. In addition, teaching students to collect data in the field is a useful and necessary part of the curriculum. This set of laptops can be used to collect field data for GIS and geography classes.

2. 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.)*

The Program Review Efficacy, 2011, states under "Planning" that we will move a lab to a chemistry lab (done) and request needed equipment. Under V, "Questions Related to Strategic

Initiative: Technology, Campus Climate and Partnerships" the documents states "The student's learn to enter the patient information and to print the correct labels for the prescriptions." Use of computers and software support the technology initiative.

In the EMP, we state that a goal is to "develop and accreditation action plan." Also we want to "develop an in depth work experience/increase clinical opportunities for students who have completed all course work since experience is a job requirement." Both preparing for accreditation and increasing the work exposure for the student require that students are adequately prepared for their licensure exam and the work place. Correctly preparing prescription labels is integral to the skills of a PHT.

Two GIS program goals as stated in the current GIS EMP, are to "improve retention and success rates and to maintain laboratories with equipment and supplies needed for quality education." Funding for shared laptops will enable the GIS program to meet these needs. In addition, a goal for the GIS Certificate program is to prepare students for "entry level GIS positions but also provides a foundation for transfer to four-year and graduate education within the fields of GIS, Geography, Photogrammetry and Remote Sensing, Computer Cartography, Environmental Sciences, Earth Sciences, and a whole host of educational and career paths that utilize GIS." Providing students with opportunities to access the technology and more importantly support for technology will better prepare our students for entry level positions and to transfer to four year institutions. Furthermore, we are currently updating our GIS curriculum and have proposed a new Data Management class. This class could specifically use the laptops as part to the curriculum.

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

An expected competency stated in the national standards is to "Evaluate the acceptability and accuracy of a prescription and verify that the information is correct then correctly prepare the prescription and label for dispensing." Computers are used in over half the labs for the second semester course and in many of the labs for first semester.
The study of GIS requires access to computers and geospatial technologies. Computers are used in every one of our GIS courses.

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 or Perkins)

There is no external source of funding for either program. Updates may be needed for GIS. The computers will follow the technology plan for replacement.

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

The pharmacy technology classes do not have access to computers. The new course outlines (2012) added an extra lab session to meet national standards. Computer use in a pharmacy setting is integral to the curriculum. Students will not be prepared to enter the workforce without proper access to computers and geospatial technologies.