

PART VI – Program of Instruction

Jefferson State Community College must continue to maximize its use of technology in order to continue to meet the college's mission of providing accessible, high quality education to students, the community, and other target audiences. All institutional efforts towards upgrade of the technology infrastructure, such as the campus portal, will support student learning. In addition, goals specific to support of the program of instruction follow:

Goal VI-1: Continue to provide appropriate technologic equipment and physical resources to support the program of instruction.

Objective VI-1-1: Evaluate needs for physical resources and equipment at all campus sites and make recommendations regarding requirements in instructional facilities.

- Evaluate usage of existing multimedia classrooms and equipment and develop and implement a plan to designate appropriate physical space(s) and purchase equipment, at all instructional sites, by the end of the 2013/2014 academic year.
- Assess instructional space on the Jefferson Campus for the CIS/OAD programs, renovate to maximize effectiveness, and purchase/upgrade computers and other technologic equipment as required, by the end of the 2012/2013 academic year.
- Renovate physics lab and incorporate appropriate computer technology and wiring, etc. for multimedia access, by the end of the 2013/2014 academic year.
- Purchase/upgrade computers and other technologic equipment as required, by the end of the 2012/2013 academic year.
- Evaluate the need for a shared lab for Nursing, EMS, Vet Tech and other disciplines requiring computer lab time for classroom instruction.

Objective VI-1-2: Continue to acquire or replace computers and other hardware as needed to support the program of instruction.

- Continue to replace and/or upgrade computers and other hardware to support CIS & OAD curriculum as noted in existing Computer Replacement Plan. This is an ongoing process that will continue throughout the timeframe of this plan.
- Develop an inventory of available technologic equipment used to support instruction (e.g., data projectors, videoconference units, etc.), assess additional equipment needs, and

develop a plan for acquiring needed equipment, at all instructional sites, by the end of the 2013/2014 academic year.

- Continue to upgrade/maintain overhead projection units that have been added to classrooms to enhance classroom instruction.

Objective VI-1-3: Enhance the quality of instruction offered to students in our health and biological sciences programs through the use of appropriate technology.

- Nursing Program:
 - Provide nursing students on each campus/site with computerized pre-programmed mannequins for patient care simulations and update oldest lab equipment as needed. Pell City and Clanton simulation labs target completion date 2012-13.
 - Add METI Vision to existing simulation labs.
 - Add Laerdal SimPad technology to existing Annie manikins to increase fidelity.
 - Purchase multi-media lecterns for Shelby and Jefferson to enhance large class size.
 - Program adoption of Electronic Health Record Software.
- Biology Department
 - Both the Jefferson and Shelby campuses have at least one Biology laboratory equipped with a minimum of eight computers for use in virtual laboratory experimentation. Both campuses are able to provide instruction through the use of computer and projector combinations either permanent to the classroom, or on moveable carts. The computers in the Biology Department on the Jefferson and Shelby campus are seven and five years old respectively and will require an update. This update is anticipated during the 2013-2014 academic year.
- Health Education:
 - Provide students enrolled in HPR courses with the latest models used in First Aid and CPR courses. To accomplish this objective the Division of Transfer/General Studies will purchase programmable mannequins and computers by fall 2014. The CPR related courses will be offered using the methods of the American Heart Association (AHA) by summer of 2013.

Objective VI-1-4: Upgrade technology in programs of the Center for Professional, Career and Technical Education, in support of expanding program offerings, revising curriculum and improving instruction.

Technology plays a critical role in the effective delivery of instruction in many career and technical programs. Programs such as Manufacturing and Technology, Construction and Building Science, Child Development, Law Enforcement, Funeral Service, Hospitality Management and others rely heavily on the use of technology to teach students the skills needed to compete in today's workforce. The challenge of offering career and technical courses via distance education and at other campus locations will require additional resources including faculty with expertise in specific fields.

- Construction and Building Science Technology

Provide the program with updated classroom and laboratory technology and equipment, including computer software and hardware, to better meet faculty and student needs and to meet accreditation and industry standards. To accomplish this, the program will:

- upgrade the computer laboratory to accommodate advanced software requirements
- ensure appropriate infrastructure needs are in place to support technology
- identify and begin to purchase needed equipment and technology to support the needs of the program's concrete testing lab, surveying lab and the woodshop

The above are ongoing and will continue throughout the timeframe of this plan.

- Funeral Service Program

Provide the Funeral Service Program with updated and/or new equipment and software.

This will be accomplished by:

- replacing program faculty computers with new computers
- purchasing flatbed scanners that will replace the current scanner
- replacing the program's fax machine
- renewing annually the software license for the Mortician's Assessment and Testing Simulator

This will be accomplished by fall 2014.

- Manufacturing and Technology (Bio-Medical Equipment Technology Option, Industrial Technology Option, Tool and Die Maintenance, Automotive/Automated Manufacturing,

Electronics, Computer Aided Drafting/Design)

Provide the Manufacturing and Technology program with appropriate office and instructional classroom/laboratory equipment and technology, including software, to enhance instruction and student learning and further develop the program's recently approved AAS degree offering at the St. Clair/Pell City location. To accomplish this, the program will:

- Upgrade classrooms and laboratories as needed at the Jefferson Campus and St. Clair Pell City location by purchasing the necessary software and hardware including lab equipment such as Air Conditioning/heat pump system, plasma cutting torch, Lincoln flextech welder with leads, safety analyzer, ultrasound wattmeter, infusion pump tester, computers, digital oscilloscope, software upgrades/renewals, and others.
- Further develop existing classrooms/laboratories by purchasing the necessary equipment and other technologies as identified by the program to fully implement the newly approved AAS degree offering.
- support faculty professional development in learning new technology by providing funds for training
- support dual enrollment dual credit classes offered in partnership with local secondary systems by purchasing and/or reimbursing secondary systems equipment purchases as special funds permit

This will be accomplished during the time frame of this plan.

- Hospitality Management/Culinary

Provide the program with updated faculty, classroom and laboratory technology and equipment to enhance instruction. To accomplish this, the program will:

- upgrade laboratory equipment at the Jefferson Campus through purchasing commercial kitchen equipment
- replace faculty computers at the Jefferson Campus
- update VHS educational instructional materials
- purchase printer/scanner/copier/fax for Shelby Campus
- purchase flat screen for instructional use

This will be accomplished by fall 2014.

- Child Development

Continue to improve classrooms and interactive learning facilities and provide updated technology and instructional materials

- Upgrade or replace computer in Jefferson Campus classroom
- Replace overhead projector in Jefferson Campus classroom
- Upgrade faculty computers and teaching tools for improved instruction
- Purchase laminator for Resource room at Shelby
- Purchase instructional materials such as videos

This will be accomplished by fall 2014.

- Law Enforcement

The Law Enforcement Program will upgrade faculty computer. To accomplish this objective the program will:

- replace or upgrade faculty computer

This will be accomplished by fall 2014.

- Fire Science

Provide the Fire Science Program with computer technology for instructional use in distance education instruction. To accomplish this, the program will:

- purchase a laptop computer with docking station.

This will be accomplished by fall 2014.

- Radiologic Technology Program:

Provide the Radiologic Technology Program with new instructional technology to support student remediation, certification preparation, and classroom/laboratory needs.

This will be accomplished by:

- Providing the program with 6 additional computer workstations for its learning lab including chairs.
- Purchasing an additional IV arm simulators and skin replacements for its patient care lab.

This will be accomplished by fall 2014.

- Clinical Laboratory Technology Program:

The Clinical Laboratory Technology Program plans to renovate its classrooms/laboratories. The program will provide Clinical Lab Tech students and full-

time faculty updated computer technology in both faculty offices and the student laboratories located in George Layton Building. To accomplish this objective the program will:

- purchase student and faculty desktop computer systems with printers
- update instructional technology in the student laboratories to include smart-board and projection technology
- update instructional software.

This will be accomplished by fall 2014.

- Physical Therapist Assistant Program

Provide the Physical Therapy Assistant program with appropriate technologies that will enhance online and traditional instructional delivery and upgrade existing technology. To accomplish this, the program will:

- replace all program faculty, classroom and laboratory desktop computers
- purchase laptop computers to facilitate online courses and clinical online databases
- phase out obsolete software and VHS content and purchase new software, particularly Adobe Acrobat
- purchase new DVDs
- provide access to Cloud drive or similar drive to allow faculty to work from remote sites
- purchase additional items such microphones to complete Tegrity sessions, flash drives, overhead pointer for PTA classroom, video camera to improve online instructional lectures/demonstrations, digital camera to enhance instruction
- support annual dues for APTA's (AS+ Suite of Assessments (WebCPI, SCIF Web)

This will be accomplished by fall 2014.

- Emergency Medical Services

Provide the program's faculty and students' access to appropriate technology sufficient to meet program and accreditation standards. To accomplish this, the program will:

- purchase the necessary equipment for teaching capnography monitoring and the use of CPAP

- replace worn IV poles,
- buy a cascade system to safely simulate oxygen delivery
- purchase current PALS course material
- update faculty and classroom computer,
- upgrade program software as needed

This will be accomplished by fall 2014.

- **Veterinary Technology Distance Education Program**

Provide program faculty with updated technology to effectively deliver online instruction and to have access to online students. To accomplish this, the program will:

- replace faculty computers with docking stations

This will be accomplished by fall 2014.

Goal VI-2: Enhance student learning through the integration of technology into the curriculum.

Goals specifically for distance education are addressed elsewhere in this report, but classes taught in more traditional formats also benefit from the integration of technology into the curriculum. The following objectives will assist in meeting this goal:

Objective VI-2-1: Develop a follow-up evaluation for faculty currently integrating technology into courses taught in traditional formats and for identifying best practices.

The academic area will work with Instructional Technology Services and Institutional Research to devise a follow-up survey to be completed by faculty regarding the use of technology in traditional classes. This objective will be completed during the 2013/2014 academic year.

Objective VI-2-2: Create a method for sharing this information with other faculty.

The academic area will implement a symposium or roundtable discussion regarding identified best practices for using technology in traditional classrooms. The objective will be implemented during the 2013/2014 academic year.

Objective VI-2-3: Provide hardware, software and training to assist faculty in meeting this goal.

With the integration of technology into traditional classes, additional hardware, software and training will be required. This is an ongoing process that will continue throughout the timeframe of this plan.

Goal VI-3: Provide professional development activities to assist faculty in the integration of technology into the curriculum.

Technology is ever changing and the need to ensure that our students are provided quality instruction from both part-time and full-time instructors is critical. The college will continue to ensure that faculty obtain the required training needed to implement new and updated technologies. In order to do this, the following will need to occur:

Objective VI-3-1: Assess technology training needs of faculty.

The academic area will work with Instructional Technology Services to continue established assessment process. This is an ongoing process that will continue throughout the timeframe of this plan. Provide training to faculty and staff as needed for upgrades/changes to Blackboard and Banner.

Objective VI-3-2: Implement a technology training curriculum for faculty.

Professional development is currently provided by Instructional Technology Services. As technology training needs change or software is updated, there is an ongoing need to develop and implement appropriate professional development activities. This process will continue throughout the timeframe of this plan.

Goal VI-4: Enhance faculty effectiveness through the availability of technology.

In order for technology to be used effectively by faculty, they must have access to appropriate computer technology. In order to meet this goal, the following must occur.

Objective VI-4-1: Continue to provide access to computers to all faculty, with assignment of computers based on utilization patterns.

Faculty who utilize office computers primarily for functions such as word processing, Internet access, etc., will be assigned a Level II computer. Faculty who utilize computers to develop Internet courses or other technology based instructional tools will be provided with a Level I computer with additional functionality, based on need. This is an ongoing process that will continue throughout the timeframe of this plan.

Objective VI-4-2: Continue to provide appropriate technology support to meet needs of faculty.

Effective support is currently provided to faculty through Information Technology and Instructional Technology Services. This support must continue to enhance faculty effectiveness through the use of technology. This is an ongoing process that will continue throughout the timeframe of this plan.