

DEPARTMENT: Computer Information Technology
PROGRAM: Network Operations Degree

Priority: 18

The following four initiatives would require the addition of another contracted faculty member. This comprises initiatives titled:

1. Security Certification,
2. CIS 227H Hardware Requirement for Network Degree
3. Wireless Networking
4. WAN Theory and Troubleshooting

INITIATIVE TITLE: Wireless Networking

DESCRIPTION:

Many networks have recently added wireless capabilities. We need to evaluate how best to integrate wireless networking theory and hands-on activities into the Network Degree. This would give us the background to develop the necessary curriculum. If this initiative resulted in an entire course on wireless networking, since there are usually 40 to 55 students, two sections of this course would be offered. The course would be taught in the CIT Network Bench lab (building 19, room 130). Since many organizations use wireless networking this project would make the Network Degree graduates more employable.

RESOURCES NEEDED:

1. Professional Development funds to train faculty. Estimated cost is \$2,500.
2. One-third faculty release time for one term to develop curriculum.
3. Part of a contracted faculty member's workload. If this initiative resulted in an entire course on wireless networking, two sections per year would be offered, thus justifying .167 FTE of a new contracted faculty member's workload.
4. The hardware needed would include 25 wireless routers and 25 wireless NICs. Estimated cost is \$10,000.

FUNDING SOURCES:

Professional Development Funds
Curriculum development release time
new General Funds would be required for the faculty member.

Carl Perkins (25 wireless routers and 25 wireless NICs, est. cost = \$10,000)

1. What evidence do you have that shows special populations have access to your programs?
Women comprised 26% of CIT degree programs population of students in 2002-03. Minority students comprised 14% of CIT degree programs population in 2002-03.

2. How does this request fit in with at least two of the Carl Perkins related goals?
Goal 1 – Improving Academic and Technical Skills.

This project will allow students to strengthen their technical skills by allowing them to gain the necessary knowledge and skills in current industry standard hardware and software programs. We need to keep our facilities secure so that academic and technical skills are taught in an adequate environment.

Goal #2 – Special Populations

This project will serve many special populations including disabled persons, academically and economically disadvantaged students, and students with limited English proficiency. Many of our students are returning to the work force or upgrading their technical skills in order to retain their current jobs, seek promotions, or retool for new positions.

3. Describe how this project might show collaboration with Lane County high schools. This initiative does not have a collaborative component with local high schools.

TACT Funds

1. Category of request: Increase student access to new technology.
2. How does this request fit in with other unit or college technology plans? The college is committed to maintaining the instructional technical facilities at the level expected by the local community for graduates of technical programs.
3. Cost breakdown, including any unit resources being applied to project.
25 wireless routers & 25 wireless NICs, estimated cost = \$10,000

ORG & PROG codes (of FOAP):

How does this project articulate with college's Vision, Mission, & Goals and contribute toward meeting the President's/Board's approved goals?

This initiative directly supports the college's Mission to provide quality professional technical and lower division college transfer programs. This initiative promotes the Learning Core Value of working together to create a learning-centered environment through the course's hands-on laboratory experience. This initiative also supports the Innovation Core Values of responding to technological changes and of acting systematically to change. The initiative supports the Collaboration and Partnership Core Value by providing the opportunity for community employees to upgrade their skills in a rapidly emerging technology.