COMPUTER ENGINEERING TECHNOLOGY, AS

Program code: CETC-AS

Location: Gateway

Program Description

The Computer Engineering Technology program provides training in hardware configuration, software development, programming applications, and the interfacing of hardware/software and communication systems. Students receive hands-on training on various computer systems, test equipment, and software products.

Learning Outcomes

Upon successful completion of all program requirements, graduates should be able to:

1. Identify, analyze, and solve technical problems in computer programming, circuitry, hardware/software and communications systems
2. Use diagnostic software and testing equipment to troubleshoot problems Install and configure computer hardware and software
3. Apply programming and assembly languages
4. Use CAD technology to design, create, analyze, simulate and evaluate electrical circuits and schematics Work cooperatively and productively with others in a laboratory test setting

Graduates of this program possess the skills to troubleshoot, repair, configure, install, and program basic computer systems. The experience and training gained in the Computer Engineering Technology Associate in Science degree program will also prepare students for the national CompTIA Computer Technicians A+ Certification Examination (offsite).

Degree Requirements

Code	Title	Credits
General Education Courses		
ENG 1010	Composition	3
MATH 2600	Calculus I	4
Elective ARHX - Arts & Humanities Course		3-4
PHYS 1201	General Physics I	4
Elective SBSX - Social / Behavioral Science Course or Elective HISX - Historical Knowledge Course		3
Elective ORAX - Oral Communication Course or Elective WRIX - Written Communication II Course		3
CCS 1001	College and Career Success	3
Program Courses		
CENT 1016	Computer Applications for Technology	3
CAD 1026	Electronics Graphic CAD	3
CENT 1024	Structured Programming	4
CENT 1026	Computer Servicing	4
CENT 2010	Computer Systems Software	4
CST 1221	Networking I	4
CYS 1101	Practices in Security Management	3
CENT 1010	Electric Circuits for Technology	4
CENT 1036	Electronics for Technology	4
CENT 2052	Digital Electronics for Technology	4
CENT 2095	Computer Engineering Technology Practicum	3
Total Credits		**63-64**