COMPUTER TECHNOLOGIES

COMPUTER ENGINEERING

Computer Engineering AAS Degree – A25590CE

-Day and Evening

The Information Technologies – Computer Engineering A.A.S. degree provides students with the skills required to install, service, and maintain computers, peripherals, networks, and microprocessor and computer controlled equipment. It includes training in both hardware and software, emphasizing operating system and electronics concepts.

Course work includes operating systems, hardware support and repair, analog electronics, digital circuit analysis, programming, and customer service, with an emphasis on the operation, use, and interfacing of memory and devices to the CPU. Additional topics may include networking, databases, communication, professional practices and cybersecurity concepts.

Graduates should qualify for employment and entrepreneurial opportunities in electronics technology, computer service and support, computer networking, server administration, programming, and other areas requiring a knowledge of electronic and computer system repair. Graduates may also qualify to take industry certification exams in the electronic, computer, and networking fields.

Program Sequence

FIRST SEMESTER

CTI	110	Web, Pgm, & Db Foundation	3
CTI	120	Network and Security Foundations	3
ENG	111	Writing and Inquiry	3
MAT	143	Quantitative Literacy	3
NOS	110	Operating Systems Concepts	3

SECOND SEMESTER

CTS	120	Hardware/Software Support	3
ELC	131	Circuit Analysis I	4
EGR	131	Intro to Electronics Technologies	2
NOS	130	Windows Single User	3
NOS	230	Windows Admin I	3

SUMMER SEMESTER

ELN	131	Analog Electronics I	4

THIRD SEMESTER

CSC	133	C Programming	3
CTS	115	Info Sys Business Concepts	3
CTS	118	IS Professional Comm	2
ELN	133	Digital Electronics	4
OMT	154	Customer Satisfaction	2
___	___	Social and Behavioral Sciences Elec	3

FOURTH SEMESTER

CTS	288	Professional Practices in IT	3
CTS	220	Advanced Hardware/Software Support	3
ENG	114	Professional Research and Reporting	3
___	___	Major Elective	2
___	___	HUM/FA Elective	3

General Education Electives

Humanities and Fine Arts Electives
(Choose 3 credit hours)

ART	111	Art Appreciation	3
HUM	115	Critical Thinking	3
MUS	110	Music Appreciation	3
PHI	240	Introduction to Ethics	3

Social and Behavioral Sciences Electives
(choose 3 credit hours)

ECO	151	Survey of Economics	3
ECO	251	Principles of Microeconomics	3
POL	120	American Government	3
PSY	118	Interpersonal Psychology	3
PSY	150	General Psychology	3
SOC	210	Introduction to Sociology	3

Major Electives
(choose a minimum of 2 credit hours)

CSC	116	Introduction to Functional Programming	3
CSC	120	Computing Fundamentals I	4
CSC	121	Python Programming	3
CSC	134	C++ Programming	3
CSC	139	Visual BASIC Programming	3
CSC	151	Java Programming	3
DBA	110	Database Concepts	3
DBA	115	Database Applications	3
NET	125	Introduction to Networks	3
NOS	120	Linux/UNIX Single User	3
SEC	110	Security Concepts	3
WBL	___	Work Based Learning (all numbers accepted)	2

Graduation Requirement ..... 65 Credit Hours