Associate of Applied Science - Cyber Security (11.1003)

CIP Code

11.1003

Overview

Program Coordinator: Bryan Broussard – bryanbroussard@cltcc.edu

Program Description

The AAS in Cyber Security program is designed to provide an opportunity to establish a strong foundation in cloud computing for employment. An ever-increasing number of both corporate and government organizations are adopting the cloud infrastructure.

Graduates will acquire a skill set that allows them to architect scalable application solutions that leverage cloud computing services.

Student Learning Outcomes:

1. **Hardware & Software Support**
   Troubleshoot, configure, and maintain computer hardware and software systems to ensure operational reliability and security.
2. **Python Programming**
   Apply the syntax and semantics of the Python programming language to automate tasks and develop security scripts.
3. **Database Management & SQL**
   Design, query, modify, and manage relational databases using fundamental SQL (Structured Query Language) statements.
4. **Cloud Computing & AWS Services**
   Deploy and manage cloud infrastructure using AWS services, including Identity and Access Management (IAM), Virtual Private Clouds (VPC), Elastic Compute Cloud (EC2), Lambda, CloudWatch, and Elastic Beanstalk.
5. **Network Administration & Security**
   Implement the core building blocks required to build, upgrade, secure, troubleshoot, and manage enterprise computer networks.

Degree

AAS –Cyber Security (11.1003)
TD - Cyber Security Specialist (11.1003)

Exit Points

CTC – Computer Maintenance Technician (11.0902)
CTS – Information Systems Technician (11.0902)

CYBERSECURITY (11.1003)

DIVISION: Technical Studies
DEPARTMENT: Information Technology

CERTIFICATE OPTIONS

CTS – COMPUTER MAINTENANCE TECHNICIAN
CTS – INFORMATION SYSTEMS TECHNICIAN
TD – COMPUTER TECHNOLOGY SPECIALIST

DEGREE OPTIONS

AAS – CYBERSECURITY

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs.
Required Program Courses					
ORNT 1000	Freshman Seminar	1	0	1	15
COMP 1201	Introduction to Programming	3	0	3	45
COMP 1105	Computer Maintenance I	1	3	4	135
COMP 1115	Computer Maintenance II	1	3	4	135
ETRN 2727	Basic Networking	1	3	4	120
CTC – COMPUTER MAINTENANCE TECHNICIAN				16	450
INCT 1202	Operating Systems	2	2	4	120
INCT 2822	Server Technology	1	2	3	105
INCT 1122	Introduction to Basic Routers	2	2	4	120
COMP 1301	Database Management Systems	1	2	3	90
COMP 1801	Cloud Foundations	2	2	4	120
CTS – INFORMATION SYSTEMS TECHNICIAN				34	1005
INCT 2842	Managing Network Security	1	2	3	105
INCT 2601	LINUX Systems Administration	3	0	3	45
COMP 2999	Cooperative Education	2	1	3	135
JOBS 2450	Job Seeking Skills	2	0	2	30
TD – COMPUTER TECHNOLOGY SPECIALIST				45	1320
ENGL 1010	English Composition I	3	0	3	45
MATH XXXX	College Algebra OR Contemporary Math	3	0	3	45
	Social Science Elective	3	0	3	45
	Natural Science Elective	3	0	3	45
	Humanities Elective	3	0	3	45
AAS – CYBERSECURITY				60	1545