

CYBERSECURITY CERTIFICATE IN APPLIED SCIENCE

CYB 293	Attack Vectors (Red Teaming)	3
Total Semester Hours		9
Total Required Credit Hours		33

Program Description

This certificate provides comprehensive training in network, software, and data cybersecurity. Topics include penetration testing, ethical hacking, digital forensics investigation, and security analysis.

Mission Statement

The Certificate in Applied Science in Cybersecurity program teaches students how to protect and defend computer systems, networks, programs and databases against cyber attacks. Emphasis throughout the program is placed on implementing defensive tools to prevent cyber attacks, learning how to simulate attacks in order to defend against them, and in the event of a successful attack, knowing how to recognize the effects and repair the damage as quickly as possible.

Entrance Requirements

High school diploma or GED

Type of Program

Day or evening

Requirements for Completion

This program requires a minimum grade of "C" in all courses.

Visit our web page at <https://www.gvltec.edu/computertechnology/>.

Recommended Program Schedule

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

First Semester		Hours
CPT 257	Operating Systems	3
IST 220	Data Communications	3
Total Semester Hours		6
Second Semester		
CYB 110	Introduction to Cybersecurity	3
IST 190	LINUX Essentials	3
IST 266	Internet and Firewall Security	3
Total Semester Hours		9
Third Semester		
CYB 201	Cybersecurity Operations	3
CYB 294	Incident Response (Blue Teaming)	3
CPT 209	Computer Systems Management	3
Total Semester Hours		9
Fourth Semester		
CYB 282	Security and Risk Analysis	3
CYB 269	Digital Forensics	3