CISCO Academy

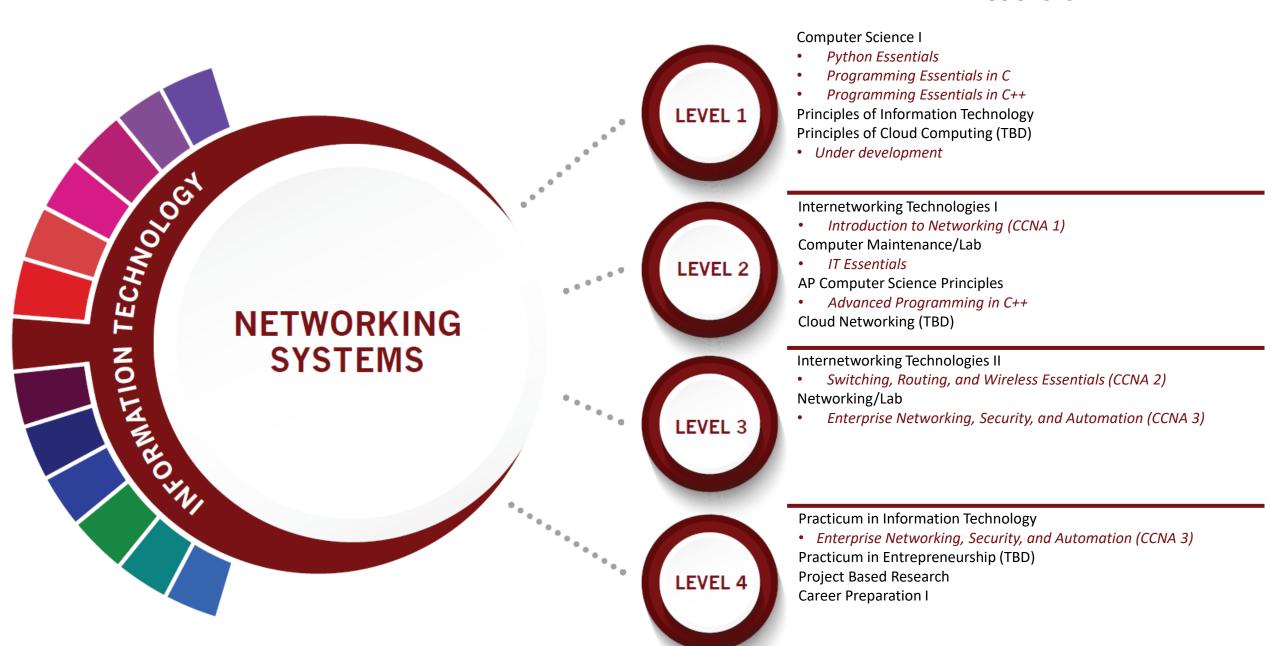
Cisco Academy courses cross walked with the Texas CTE clusters

IT Cluster

Networking Systems



COURSES



Computer Science I

- Programming Essentials In Python
 - 70 hours
 - PCAP Certified Associate in Python Programming
- Programming Essentials in C
 - 70 hours
 - C Programming Language Certified Associate Certification (CLA)
- Programming Essentials in C++
 - 70 hours
 - C++ Certified Associate Programmer Certification (CPA)
 - Part 1 of 2 needed for C++ Certified Professional Programmer Certification (CPP)

Principles of Information Technology

Principles of Cloud Computing (TBD)

Under development



Internetworking Technologies I

- Introduction to Networking (CCNA 1)
 - 70 hours
 - Networking Academy badge
 - Cisco Certified Technician Routing and Switching CCT-RSTech

Computer Maintenance/Lab

- IT Essentials
 - 70 hours
 - CompTIA A+ Certification

AP Computer Science Principles

- Advanced Programming in C++
 - 70 hours
 - C++ Certified Professional Programmer Certification (CPP)

Cloud Networking (TBD)



Internetworking Technologies II

- Switching, Routing, and Wireless Essentials (CCNA 2)
 - 70 hours
 - Networking Academy badge

Networking/Lab

- Enterprise Networking, Security, and Automation (CCNA 3)
 - 70 hours
 - Networking Academy badge
 - CCNA: Switching, Routing, and Wireless Essentials



Practicum in Information Technology

Could use ENSA course here instead of above (3rd CCNA course)

Practicum in Entrepreneurship (TBD)

Project Based Research

Career Preparation I



CISCO Academy

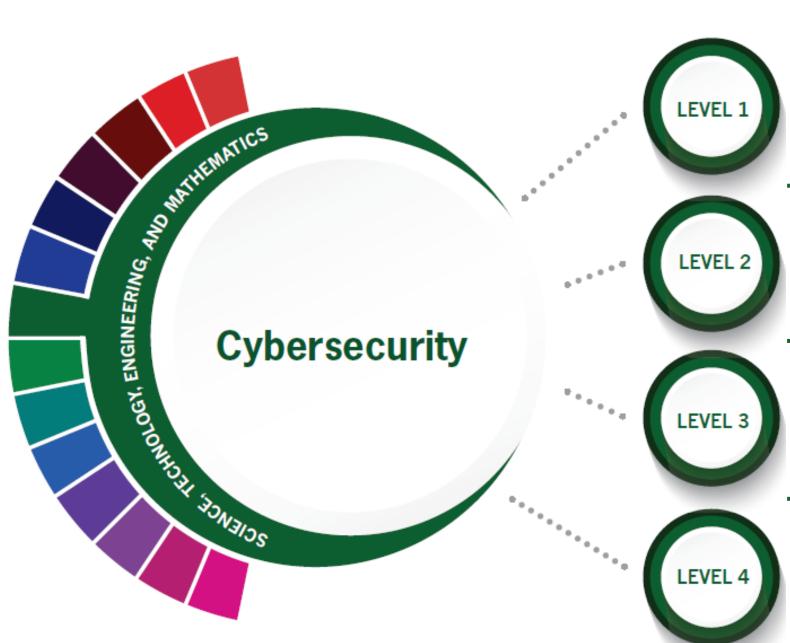
Cisco Academy courses cross walked with the Texas CTE clusters

STEM Cluster

Networking Systems



COURSES



Principles of Information Technology Fundamentals of Computer Science

Programming Essentials in C Foundations of Cybersecurity

- Introduction to Cybersecurity
- Cybersecurity Essentials
- Linux Essentials

Internetworking Technologies I

Introduction to Networking (CCNA 1)

Computer Programming I

Programming Essentials in C++

Computer Science I

Programming Essentials in Python

AP Computer Science Principles Computer Maintenance/Lab

IT Essentials

Internetworking Technologies II

- Switching, Routing, and Wireless Essentials (CCNA 2) **Engineering Applications of Computer Science Principles** Networking/Lab
- Enterprise Networking, Security, and Automation (CCNA 3) Digital Forensics AP Computer Science

- Advanced Programming in C
- Advanced Programming in C++

Cybersecurity Capstone

CCNA Cybersecurity Operations

Practicum in Information Technology Practicum in STEM

Project-Based Research

Principles of Information Technology Fundamentals of Computer Science

- Programming Essentials in C
 - 70 hours
 - C Programming Language Certified Associate Certification (CLA)

Foundations of Cybersecurity

- Introduction to Cybersecurity
 - 15 hours
 - Networking Academy badge
- Cybersecurity Essentials
 - 30 hours
- Linux Essentials
 - 70 hours
 - LPI Linux Essentials Professional Development Certificate (PDC)



Internetworking Technologies I

- Introduction to Networking (CCNA 1)
 - 70 hours
 - Networking Academy badge
 - Cisco Certified Technician Routing and Switching CCT-RSTech

Computer Programming I

- Programming Essentials in C++
 - 70 hours
 - C++ Certified Associate Programmer Certification (CPA)
 - Part 1 of 2 needed for C++ Certified Professional Programmer Certification (CPP)

Computer Science I

- Programming Essentials In Python
 - 70 hours
 - PCAP Certified Associate in Python Programming

AP Computer Science Principles Computer Maintenance/Lab

- IT Essentials
 - 70 hours
 - CompTIA A+ Certification



Internetworking Technologies II

- Switching, Routing, and Wireless Essentials (CCNA 2)
 - 70 hours
 - Networking Academy badge

Engineering Applications of Computer Science Principles Networking/Lab

- Enterprise Networking, Security, and Automation (CCNA 3)
 - 70 hours
 - Networking Academy badge
 - CCNA: Switching, Routing, and Wireless Essentials

Digital Forensics

AP Computer Science

- Advanced Programming in C
 - 70 hours
 - CLP C Certified Professional Programmer Certification
- Advanced Programming in C++
 - 70 hours
 - C++ Certified Professional Programmer Certification (CPP)



Cybersecurity Capstone

- CCNA Cybersecurity Operations
- 70 hours
- Cisco Certified CyberOps Associate certification

Practicum in Information Technology

Practicum in STEM

Project-Based Research

