ecpi UNIVERSITY

DUAL ENROLLMENT PROGRAM

COMPUTER INFORMATION SCIENCE
GET A JUMP ON COLLEGE!

The Advantages of Participating

- Earn up to 27 college credits prior to graduation
- Save cost on college tuition
- Hands-on Learning - Experience ECPI University's learning by doing approach
- Graduate From College Sooner - Save time by completing undergraduate programs while still in high school

COURSES OFFERED

CIS106 Introduction to Operating Systems

CIS126 Introduction to Programming

CIS123 Introduction to Python Scripting

CIS101 Computer Configuration I

EET251 Computer Configuration II

CIS150 Introduction to Networking

CIS225 Network Protocols and Services

CIS206 Linux Administration

CIS212 Principles of Cybersecurity

Dorchester School District Two

Leading the Way: Every Student, Every Day

PLEASE SEE YOUR SCHOOL COUNSELOR FOR ADDITIONAL INFORMATION OR CALL (843) 606-5902

3800 Paramount Dr. North Charleston 29405 ecpi.edu

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DUAL ENROLLMENT PROGRAM

CIS
GET A JUMP ON COLLEGE!

CIS COURSE DESCRIPTIONS

CIS106 INTRODUCTION TO OPERATING SYSTEMS

This course will provide students with an introduction to the major hardware and software components of computer-based operating systems, including Windows and Linux. Upon successful course completion, students will be able to configure the user interface, perform basic maintenance, and conduct data backup and recovery.

CIS126 INTRODUCTION TO PROGRAMMING

This course will provide students with an introduction to structured concepts of a high-level programming language. Students will learn the basic syntax of a programming language. Upon successful course completion, students will be able to write console programs using the C language.

CIS123 INTRODUCTION TO PYTHON SCRIPTING

This course will provide students with an introduction to programming using the Python programming language. Students will learn the basic syntax and structures of the language used to build a program. Upon successful course completion, students will be able to write console programs using the Python programming language.

CIS101 COMPUTER CONFIGURATION I

This course introduces students to motherboard features such as, bus systems, I/O interfaces, system resources, CPU socket types, RAM socket types, CPU characteristics, storage devices, and coolbin. Upon successful course completion, students will be able to identify the physical components of a computer, choose components based on a set of requirements, and configure an operating system.

EET251 COMPUTER CONFIGURATION II

This course continues the study of computer systems to include disk drive organization, peripheral devices, and networking concepts. Students will learn the operation and internal functions of a variety of peripheral devices. Upon successful course completion, students will be able to perform peripheral device maintenance, install and configure printers, monitors, and network, devices.

CIS150 INTRODUCTION TO NETWORKING

This course will provide students with an introduction to the basic concepts, technology, and terminology used in computer networks. Students will learn to configure network devices, connect them and troubleshoot problems. Upon successful completion of the course, students will be able simulate the design and implementation of a small network with associated security controls.

CIS225 NETWORK PROTOCOLS AND SERVICES

The course will provide students with a technical review of network protocols, infrastructure, and services. Students will learn to design solutions based on TCP/IP and how to implement and troubleshoot common issues found in modern networks. Upon successful completion, students will be able to identify, research, analyze and resolve common network access and performance problems.

CIS206 LINUX ADMINISTRATION

This course will provide students with essential knowledge to begin using and managing Linux using a generic platform operating system. Upon successful course completion, students will be able to manage the operating system architecture, customize the system, mount and unmount devices, and do basic network administration.

CIS212 PRINCIPLES OF CYBERSECURITY

This course provides the student with an understanding of the fundamental concepts of cybersecurity and covers the general security concepts involved in maintaining a secure computing environment. Upon successful completion of this course, students will be able to examine and describe general cybersecurity fundamentals and implementation techniques, and/or graphs as well as apply mathematical principles to real world situations including scientific models and theories.