2013-14 Programs of Study

FORBES ROAD
CAREER AND TECHNOLOGY CENTER
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Construction

Building Construction Technology

Building Construction Technology students gain technical knowledge as well as practical hands-on training in the trade which includes carpentry, plumbing, electrical, masonry and blueprint reading. Individuals learn to apply technical knowledge and skills in the maintenance and repair of residential, office, apartment and other commercial buildings.

Heating, Ventilation & Air Conditioning

The program trains students to become qualified HVAC technicians and mechanics. A major portion of the instruction focuses on how to install, diagnose, service and maintain residential and commercial control wiring for HVAC.

Electrical Technology

Electrical Technology prepares students for entry level electrical and electronics careers. Their technical applications include green technology instruction within this state-of-the-art electrical laboratory. Computerized training equipment is utilized to prepare the students for careers in the "high-tech" electrical field.

Landscape Design

Landscape Design is aimed to prepare students to be employees of nurseries, greenhouses, florists, or landscape businesses. The curriculum includes turf management, landscape design and safety, pest and disease management, and irrigation. You will be practicing skills on our 42 acre campus and in the new greenhouse.

Information Technology

Advertising Design

The field of advertising and commercial art requires a person who possesses a wide range of creative skills. This curriculum includes production, illustrative techniques, computer graphics and photography. Students create art that requires them to apply their technical skills to an advertising workplace.
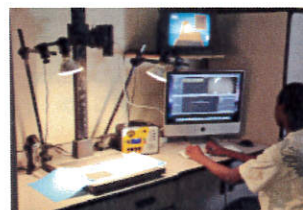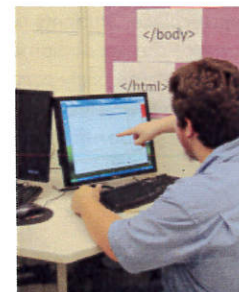
Computer Networking & Security

This exciting technical course prepares students to design, maintain and secure today's Information Technology (IT) Systems which support every aspect of our global economy. Network Security Specialists acting as Ethical Hackers prevent data loss form cyber attacks, network intrusions and viruses, protecting valuable personal and corporate data. Students will use the latest tools to gain the practical experience needed to earn valuable professional certifications such as A+, Network +, CISCO and Security +. Network Security Specialists are in high demand in law enforcements, large corporations, and government agencies including the FBI, CIA and NSA.

Information Technology & Gaming

This program provides students with as foundation in computer fundamentals, information management and a basic knowledge of video game development. Students receive instruction in a variety of office and business applications, the fundamentals of personal finance, as well as several computer programming languages, including some used for video game development.

Multimedia Design

This program allows students to be creative with design presentations for entertainment, industrial and commercial applications. This curriculum utilizes digital/video cameras and projectors in conjunction with computers. Students create animations, manipulate photographs, create presentations and web pages.

Manufacturing

Machine Tool/Robotics

In this program you will design and create metal objects that are used daily. Students will read blueprints and cut, shape and finish metal products on state-of-the-art machines. Student projects include making motorcycle, atv, and race car parts, machinist tools and paintball markers.

Electromechanical technicians engage in design, construction and programming of robotic systems. This program combines computer, electrical, and mechanical engineering skills to create robots. Students will design, develop, test and manufacture electronic and computer-controlled mechanical systems, such as robots and assembly machines. Students will have the opportunity to work on a BattleBots team and construct a robot from research and development, manufacturing, construction, inspection, and maintenance to the final competition.