The Henrico County Advanced Career Education (ACE) Centers offer training opportunities in the following areas for the 2016-2017 school year:

ADVANCED CAREER EDUCATION (ACE) CENTER at HERMITAGE 804-756-3020

Air Cond., Refrigeration & Plumbing

Automotive Technology

Barbering

CAD - Computer-Aided Drafting

& 3D Animation
Cosmetology

Criminal Justice

Culinary Arts

Diesel Technologies Electricity & Cabling

Emergency Medical Technician

Graphic Communications Greenhouse Management

Landscaping

Legal Systems Administration Medical Systems Administration

Nurse Aide

Practical Nursing I

Precision Machining Technology

Sports Medicine Veterinary Assistant

Web Development/Programming

ADVANCED CAREER EDUCATION (ACE) CENTER AT HIGHLAND SPRINGS 804- 328-4075

Auto Body Repair Electricity & Cabling
Automotive Technology High Tech Academy

Carpentry Tourism Marketing and Sales

Computer Systems Technology Masonry
Cosmetology Nurse Aide

Criminal Justice Pharmacy Technician
Early Childhood Education Practical Nursing I

& Services Radio Broadcasting & Journalism

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Reasonable accommodation will be provided upon request for individuals with disabilities.

For additional information, please contact a counselor in your school or write or call:

Career and Technical Education Department Henrico County Public Schools 3751-C Nine Mile Road, Henrico, VA 23223-0420 (804) 781-1810 HENRICOCTE.COM







Web Development Programming





Web Development/Programming Course No. 6630/6640

Advanced Web Development/ Advanced Programming Course No. 6631/6641

Prior Computer-Related Courses and/or Keyboarding are recommended.

Course Description

Web Development/Programming is a two-year, dual enrolled, 3-period program designed to offer the tools and skills students need to succeed in today's high-technology marketplace. Students have the opportunity to earn up to 12 credit hours with ECPI.

Instruction includes:

- Developing proficiency in Web programming specifically HyperText Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript, JAVA and C++.
- Using Adobe Creative Suite products (Dreamweaver, Flash, Photoshop) to develop interactive websites.
- Incorporating principles of layout and design into Web and desktop-published projects.
- Developing real-world business application development skills using current web enabled application languages.
- Planning, defining and using databases.
- Refining presentation skills and designing electronic portfolios.
- Demonstrating an understanding of business ethics, copyright laws, computer crimes and privacy issues.
- Developing leadership and team-building skills through student organizations (Future Business Leaders of America – FBLA, and First Robotics) activities and small-group projects.
- Developing the skills to earn a certified Internet web professional certificate in site development.
- Developing the skills to earn a Microsoft Technology Associate certification in Software Development.

Course Outline

- Computer concepts and Networking essentials
- Program Design and Problem Solving
- Data Structures and Discrete Mathematics
- Internet Concepts and Web Technologies
- Hierarchy and Abstraction in Computing
- Website Design and Development
- Design for Usability
- Levels of Language, Software, and Translation
- Object-oriented programing language
- Principles of Software Engineering
- Models of Intelligent Behavior
- Careers in Computing
- Multimedia presentations and communication skills
- Ethical and Social Issues
- Leadership development and employability skills

Job Outlook

- The Bureau of Labor Statistics projects 27% percent employment growth for Web developers and 17% for software developers between 2014 and 2024.
- The 2015 median salary for Web developers was \$64,690 and \$100,690 for Software developers.
- Graduates of this course are encouraged to pursue programs leading to an industry certification and post-secondary associate/baccalaureate degrees in Computer Science, Information Technology or Business.
 - This program is offered only at the Advanced Career Education Center at Hermitage.
 - Students may participate in a technical internship in the community, if selected.
- Completion of this program includes an opportunity for students to receive industry certifications from Microsoft and CIW Web Foundations.