

## INFORMATION TECHNOLOGY



**Computer Systems Technology** (2 years, 6 credits) Students learn how to install, setup, service, troubleshoot, network and maintain PCs while preparing for CompTIA's A+ and Net+ industry standard certifications. This class is dual enrollment with ECPI University and students may earn up to 6 college credits.

## LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY



**Criminal Justice** (2 years, 6 credits) Dual Enrollment with ECPI University 12 college credits. Instruction provided in the areas of law enforcement and legal procedures as well as physical training.

## MANUFACTURING



**High Tech Academy** (2 years, 6 credits) Prepare for a career in the high tech industries including science, technology, engineering and mathematics (STEM). Be introduced to different disciplines of engineering. Help answer the question "when are we going to use this?" by applying math and science. Get a head start in your college career; earn up to 28 college credits from VCU.



**Precision Machining Technology** (2 years, 6 credits) 15 hours of college credit Prepare for certification as a machinist apprentice or machine operator. Learn how to safely operate milling machines, lathes, drill presses and cut-off saws. Also offering Computer Numeric Control (CNC) and welding.

## TRANSPORTATION, DISTRIBUTION AND LOGISTICS



**Auto Body Repair** (2 years, 6 credits) Gain hands-on experience with welding, plastic fillers, and refinishing equipment and processes.



**Automotive Technology** (2 years, 6 credits) Learn maintenance and diagnostic procedures. Take the NATEF with N3SA Certification ASE Test. BG service approved training. AYES paid internships are available for second year students with sponsoring dealerships. Students receive Commonwealth of Virginia Safety Inspection Certification Training.

## HOW TO GET STARTED NOW

For information about the technical center application process or about booking the Career and Technical Education Bus, please contact:

Brad Beazley  
Career Specialist  
(804) 781-1811

Fax: (804) 236-5705

bmbeazle@henrico.k12.va.us

<http://teachers.henrico.k12.va.us/cte/CareerSpec.htm>

or

Tracey Hicks  
Secretary

(804) 781-1816

tghicks@henrico.k12.va.us

For more information about programs offered at the technical centers, please contact:



Hermitage Technical Center  
Terrie W. Allsbrooks, Principal  
Sara Sternbach, School Counseling  
(804) 756-3020



Highland Springs Technical Center  
Johnnie L. Collie, Principal  
Paula Harris, School Counseling  
(804) 328-4075

 **HCPS**  
Henrico County Public Schools

Career and Technical Education  
3751-C Nine Mile Road  
Henrico, VA 23223

# Tech Times

## CAREER AND TECHNICAL EDUCATION IN HENRICO COUNTY PUBLIC SCHOOLS

Career and Technical Education (CTE) provides students opportunities. . .

- to develop academic, computer, technical, leadership, and workplace readiness skills
- to earn college credit through dual-enrollment courses with two- and four-year colleges and universities that will enable them to earn a degree in a shorter period of time
- to earn nationally recognized industry certifications and licensures that will connect them to high-tech, high-paying careers
- to gain work experience in business and industry
- to experience the excitement of participating in programs that combine academic and technical content, using a hands-on approach that makes learning relevant and fun.



*The Big Red Bus will be wheeling in the careers at a neighborhood school near you!*

**CTE**

Providing a Competitive Edge

## TECHNICAL CENTERS



Hermitage  
Technical Center



Highland Springs  
Technical Center

These centers operate as extensions of all county high schools and offer a variety of technical programs.

All technical center classes are taken for elective credit. Most programs are two-year sequences that students typically begin in their junior year.

Note: Transportation is provided.

## CTE STUDENTS BUILD HOUSES



**CTE students have multiple paths to successful careers beyond high school:**

- Community colleges
- Four-year colleges
- Career and technical schools
- Registered apprenticeships
- Military training
- Workforce

# COURSE DESCRIPTIONS

Key:



Offered at Hermitage Technical Center



Offered at Highland Springs Technical Center



Offered for dual credit at Virginia Commonwealth University

## AGRICULTURE, FOOD AND NATURAL RESOURCES



**Greenhouse Management** (1 year, 3 credits)  
Grow annuals, perennials, vegetables and herbs in a garden center setting. Study horticulture therapy, techniques of floral design and wedding planning, plant propagation and transplanting.

## ARCHITECTURE AND CONSTRUCTION



**Air Conditioning/Refrigeration/Plumbing** (2 years, 6 credits) Learn to install, troubleshoot, and service air conditioning, heating, plumbing, and refrigeration systems. Students may work toward EPA/CFC certification.



**Carpentry** (2 years, 6 credits) Explore careers in residential and commercial carpentry including cost and materials estimating and remodeling while learning comprehensive carpentry skills.



**CAD—Computer-Aided Drafting and 3D Animation** (2 years, 6 credits) Explore careers in drafting, engineering, architecture, and design while learning technical drawing skills using AutoCad software.



**Electricity and Cabling** (2 years, 6 credits) Learn basic principles of direct and alternating current with first-year emphasis on residential wiring. Earn one of four state-required years of electrical apprenticeship through standardized tests.



**Masonry** (2 years, 6 credits) Explore careers in residential and commercial brick and masonry construction while learning how to read blueprints, mix mortar, and construct walls, corners, piers, and chimneys.

## ARTS, A/V TECHNOLOGY AND COMMUNICATION



**Graphic Communications** (2 years, 6 credits)  
Instruction on digital layout and design with Adobe Creative Suite as well as designing and publishing HTC newsletter; production procedures, digital 4-color printing, screen printing of T-shirts and hoodies, vinyl signs and decals.



**Radio Broadcasting and Journalism** (2 years, 6 credits) Explore careers in commercial production, digital editing, news broadcasting, script writing, and radio programming while participating in live broadcasting.



**Telecommunications** (2 years, 6 credits) Learn networking technologies, electronic and voice telephone (telephony), laser and fiber optic, data compression, satellite and wireless technologies.



**Web Development/Programming** (2 years, 6 credits)  
Learn to design and construct Web pages using HTML, JavaScript, Dreamweaver, Flash, Java and other programming languages. Learn project-management skills and become a Certified Internet Webmaster (CIW).

## BUSINESS MANAGEMENT & ADMINISTRATION



**Legal Systems Administration** (1 year, 3 credits)  
Learn business skills, legal terminology, and how to work with legal documents for employment in the legal field.



**Medical Systems Administration** (1 year, 3 credits)  
Learn business skills, medical terminology, record keeping, and how to work with insurance documents for employment in a medical office.



## EDUCATION AND TRAINING

**Early Childhood Education and Services** (2 years, 6 credits)  
Prepare for child-care related professions such as child care, teaching, child psychology, etc. Experience in-class instruction and on-the-job training in a preschool setting. Students who successfully complete the two-year program will receive an industry certification upon passing a certification exam.



## HUMAN SERVICES

**Barbering** (2 years, 6 credits) Learn technical skills and job opportunities of a licensed barber. Successful completion of this two-year program will qualify students to take the state board exam and become a licensed barber.



**Cosmetology** (2 years, 6 credits) Successful completion of this two-year course will qualify students to take the state board exam and potentially become a licensed cosmetologist, salon manager/owner, or skin care and makeup specialist.



## HEALTH SCIENCE

**Emergency Medical Technician** (1 year, 3 credits)  
Gain knowledge and learn the skills to become a certified emergency medical technician. This course is an excellent introduction to any health/medical occupation or public safety career.



**Nurse Aide** (1 year, 3 credits) This course provides clinical experience in long-term care settings and is an excellent introduction to basic nursing skills. Learn anatomy, physiology, nutrition, and geriatrics.



**Pharmacy Technician** (1 year, 3 credits) Learn how to assist a pharmacist in ordering, stocking, packaging, and dispensing medications for related medical careers.



**Practical Nursing I** (Seniors only, 3 credits) Explore nursing in med-surg and long-term care. After successful completion of Practical Nursing I and II (9 months post-graduation) the student is eligible to take the NCLEX-PN to become a Licensed Practical Nurse.



**Sports Medicine** (1 year, 3 credits) Develop skills required by professional athletic trainers, physical therapists, nutritionists, and other health and medical personnel.



**Veterinary Science** (2 years, 6 credits) Explore a career in the veterinary field through hands-on experiences in order to learn proper health care and maintenance of animals.



## HOSPITALITY AND TOURISM

**Culinary Arts** (2 years, 6 credits) Learn the art and science of culinary preparation from a certified executive chef and gain hands-on experience in the restaurant business. This program is accredited by the American Culinary Federation.



**Hotel and Catering** (2 years, 6 credits) Explore careers in hotel management by gaining skills in hotel front office, housekeeping, marketing, and food and beverage operations.

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