



Career and Technical E D U C A T I O N

Developing Skills for the 21st Century

Fairfax County Public Schools





Career and Technical Education (CTE) provides instructional programs through which students acquire knowledge and learn relevant technical applications of current and emerging careers while preparing for postsecondary studies and employment opportunities following high school graduation.

The CTE curricula are focused around six program-specific areas: business and information technology, family and consumer sciences, health and medical sciences, marketing, technology education, and trade and industrial.

Standard CTE course offerings are available in all middle and high schools. Advanced and specialized training is available to all juniors and seniors in the six high school academies and at other selected sites.



Construction Technology



Hospitality Management

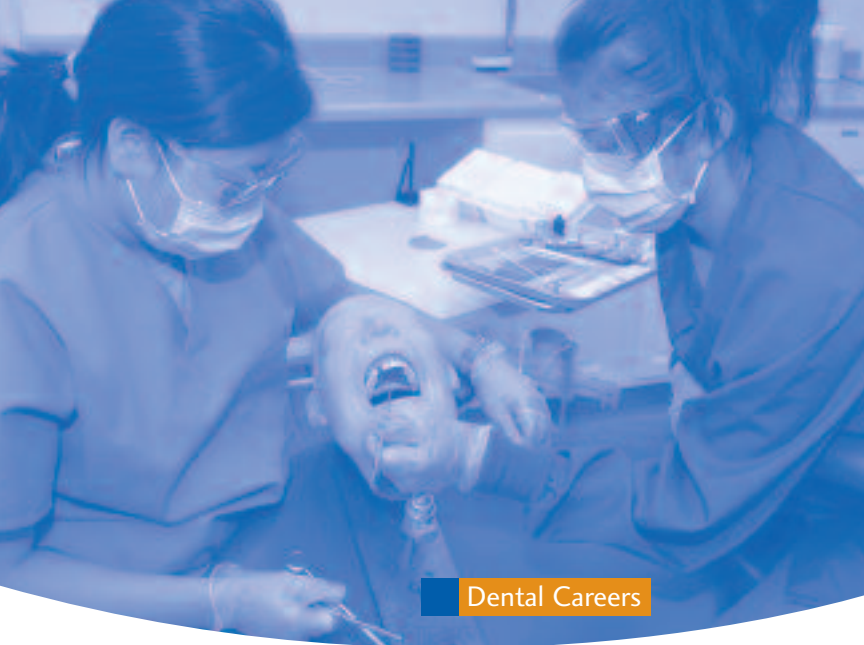
Business and Information Technology courses enable students to explore fields such as **finance** and **information technology**. Middle school courses are provided in technology tools. High school courses focus on current technology-related software applications including Visual Basic programming, multimedia, and web development. Other high school courses provide opportunities to learn about accounting, finance, law, and management. Academy courses are offered in networking, Oracle, Cisco, and A+. The business program also offers an internship program between individual schools and various employers in the community. Juniors and seniors are eligible to work in an office environment as an extension of the classroom instruction.

Family and Consumer Sciences courses focus on the **relationship between work and family**. Courses enable students to explore family and consumer sciences occupations. Middle school courses include the study of family and consumer roles. High school courses include child development and parenting, early childhood careers, culinary arts, interior and fashion design, international foods and hospitality, gourmet foods, fashion design, life planning, and teacher cadet.

Health and Medical Sciences courses enable students to explore a wide variety of opportunities within the health field in the areas of **medical, dental, veterinary, and allied health**. Students have the opportunity to develop a strong health care knowledge base and practice clinical skills through lab and internship experiences. Several courses lead to professional licensure or industry certification including emergency medical technologist (EMT), certified nursing assistant (CNA), certified pharmacy technician (CPhT), and licensed practical nurse (LPN). High school courses are provided in advanced health sciences, animal science, dental careers, exploring health sciences, exploring the language of medicine, fire and emergency medical sciences, pharmacy technician, physical and occupational therapy, and practical nursing.

Marketing courses provide instruction in the fields of **trade, commerce, and marketing**. High school courses are provided in entrepreneurship, international trade, hospitality management, media, fashion, and sports and entertainment marketing. The marketing program also has an internship component that allows junior and senior students to work in a marketing-based job as an extension of their classroom instruction. Students receive additional credit for their work outside the classroom.





Technology Education courses focus on the **technology of industry**. Middle school programs provide active learning situations that allow students to explore technology and related careers. High school courses are provided in technical, architectural, and engineering drawing; design and technology; electronics; engineering; and engineering physics.

Trade and Industrial courses enable students to study **industry** and **professional careers**. These programs offer students an opportunity to take a variety of courses developed and implemented from today's industry standards. Classroom work is supplemented with simulations, innovative laboratories, and internships. High tech courses are provided in aerospace science, auto technology, professional graphics studio, professional photography studio, and professional television production. Other offerings include auto collision service; construction technology; construction management; cosmetology; criminal justice; electrical construction and engineering; heating, ventilation, air conditioning, and refrigeration; and landscape architecture and turf management.



Special Programs

Career Experiences

Students have opportunities for internships, job shadowing, mentoring, and technology and career fairs.

College Articulation Agreements

More than 26 articulation agreements allow for students to earn Advanced Placement credits at participating postsecondary institutions.

Foundation for Applied Technical Education, Inc. (FATE) Projects

Sponsored projects include the Spring Village Residential Construction Site, Student Auto Sales, Classroom-on-the-Mall, and Digital Imaging Graphics Studio.

Industry Certifications and Licensure

Exposure to coursework and job experiences can lead to professional certification in a wide variety of fields including:

- A+
- Automotive Service Excellence (ASE)
- Certified Pharmacy Technician (CPhT)
- Computer-Assisted Design (CAD)
- Emergency Medical Technologist (EMT)
- Licensed Cosmetologist
- Microsoft Certified Systems Engineer (MCSE)

Business Industry Partnerships

In addition to the Career and Technical Education Advisory Committee (CTEAC), numerous business partnerships exist throughout Fairfax County Public Schools to promote student success.

Scholarships

More than 500 CTE students receive full or partial scholarships to postsecondary institutions each year.

Student Organizations

These groups provide opportunities for students to participate in national cocurricular organizations, including DECA, FBLA, FCCLA, HOSA, SkillsUSA, and TSA.

Tech Adventure Camp

An exciting opportunity to explore a two-week summer technology camp for rising 6th, 7th, and 8th graders held at two sites.

Fashion Camp

Fashion trends, modeling, and lessons in business etiquette are the highlights of this weeklong camp for students in grades 1-8. This camp is sponsored by the Marketing Advisory Board.

High School Academies



The high school academies offer advanced technical and specialized elective courses for students interested in pursuing careers in communications and the arts, international studies, business, engineering, scientific technology, or health and human services.

In the academy elective course offerings, juniors and seniors receive both career and academic preparation for future learning in college and career fields.

For more information or to participate as a job shadow host, mentor, or internship supervisor, contact the academy administrators at the following sites:

Chantilly High School Academy

for Engineering & Scientific Technology and Health & Human Services, 703-222-7460.
www.fcps.edu/ChantillyAcademy

Edison High School Academy

for International Studies & Business and Engineering & Scientific Technology, 703-924-8100.
www.fcps.edu/EdisonAcademy

Fairfax High School Academy

for Communications & the Arts, 703-219-2226.
www.fcps.edu/FairfaxAcademy

Falls Church High School Academy

for Health & Human Services, 703-207-4011.
www.fcps.edu/FallsChurchHS

Marshall High School Academy

for International Studies & Business and Engineering & Scientific Technology, 703-714-5582.
www.fcps.edu/MarshallAcademy

West Potomac High School Academy

for Communications & the Arts and Health & Human Services, 703-718-2750.
www.fcps.edu/WestPotomacAcademy

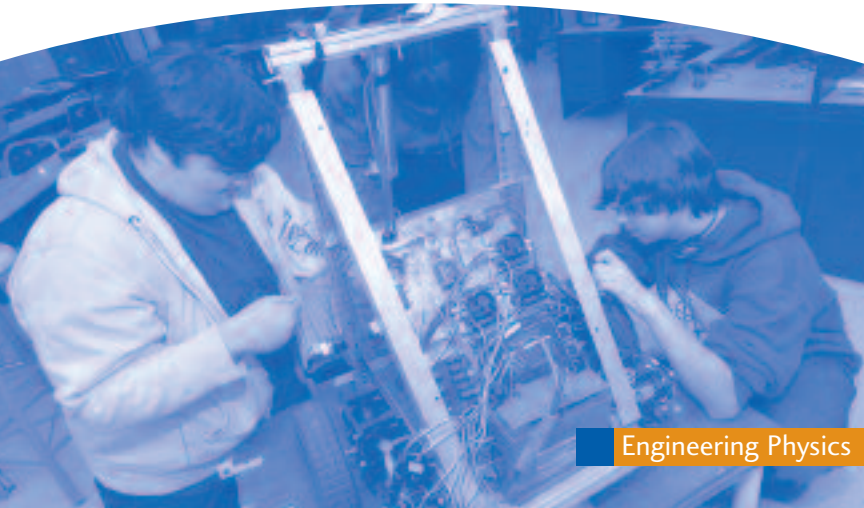


Early Childhood Careers

No student in Fairfax County Public Schools shall, on the basis of sex, race, religion, national origin, or marital or parental status, be excluded from or denied enrollment in any academic activity or course.



Career and Technical Education
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www.fcps.edu/DIS/OCTE



Engineering Physics