

CTECS Community of Practice



**Virginia Department of Education
Office of Career, Technical, and
Adult Education**

**Extending Career Readiness into Elementary and
Middle School**

**The Omni Hotel
Richmond, VA**

November 6, 2019

Agenda



- General Assembly Legislative Regulations
- Curriculum Development
- Current Middle School Clusters, Pathways & Courses
- New Program/Course Application
- Resource Links

GLOBAL
COMPETITIVENESS
SUCCESS
LEADING CHANGE
CAREER
READINESS
STUDENT
COLLEGE &
LEADERSHIP
ECONOMIC VITALITY
LEADERSHIP
HIGH-DEMAND
LEARNING
SKILL
CITY
OPPORTUNITY
LEADING CHANGE
WORKFORCE
READINESS
GLOBE
CLASSES
HIGHER
RATES
STUDENT
SUCCESS
CAREER
WORLD CLASS
LEARNING
ECONOMIC
ENTREPRENEURSHIP
LEADING CHANGE
MAKING
DIFFERENT
COLLEGE &
CAR
READ
HIGH-
OPPOR
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SUCCESS
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ECONOMY
TRAN
EXPERIENCE

Virginia General Assembly 2019-2020 School Year



Education Appropriations for Career and Technical Education
\$73,272,880

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College and Career Readiness



8VAC20-131-140.

College and Career Readiness; Career Exposure, Exploration, and Planning; and Opportunities for Postsecondary Credit.

- Each middle and secondary school shall provide for the early identification and enrollment of students in a program with a range of educational and academic experiences related to college and career readiness in and outside the classroom, including an emphasis on experiences that will motivate disadvantaged and minority students to prepare for a career or postsecondary education.

College and Career Readiness



Beginning with the 2013–2014 academic year and through the 2017–2018 academic year:

- Beginning in the middle school years, students shall be counseled on opportunities for beginning postsecondary education and opportunities for obtaining industry certifications, occupational competency credentials, or professional licenses in a career and technical education field prior to high school graduation.



College and Career Readiness



Beginning with the 2018–2019 academic year:

- Each elementary, middle, and secondary school shall provide for the identification by all students of personal interests and abilities to support planning for postsecondary opportunities and career preparation.

College and Career Readiness



Beginning in the elementary school years, students are to:

- Explore the different occupations associated with career clusters and select an area or areas of interest.
- Begin the development of an academic and career plan portfolio (ACPP) to include information about interests, values such as dependability and responsibility, and skills supporting decisions about their future interests and goals.

College and Career Readiness



Beginning in middle school, students shall:

- Complete a career interest inventory and select a career pathway.
- The information contained in the ACPP shall serve as the foundation for creating the academic and career plan (ACP) in grade 7.
- The components of the ACP shall include the student's program of study for high school graduation and a postsecondary career pathway based on the student's academic and career interests.
- Complete a career investigations course.



College and Career Readiness



- Be counseled on opportunities for beginning postsecondary education and opportunities for obtaining industry certifications, occupational competency credentials, or professional licenses in a career and technical education field prior to high school graduation.
- All schools shall continue development of the ACP with each seventh-grade student, and completed by the end of the fall semester of the student's eighth-grade year.

College and Career Readiness



- A career-related learning experience shall be chosen by the student and documented in the ACP.
- The ACP shall be included in the student's record and shall be reviewed and updated annually.
- The ACP shall be developed in accordance with guidelines established by the board and signed by the student, student's parent or guardian, and school official or officials designated by the principal.
- Beginning in high school, wherever possible, students shall be encouraged and afforded opportunities to take college courses simultaneously for high school graduation and college degree credit (dual enrollment).

Virginia Administrative Code

CTE Regulations



8VAC20-120-120. CTE Program Requirements.

Career and technical education programs must be provided in middle and secondary schools.

- § The middle school must include a minimum of one career and technical offering.
- § Each secondary school shall provide a minimum of three career and technical program areas to include a minimum of 11 course offerings.



Establishing New CTE Programs/Courses



8VAC20-120-110.

New CTE Programs/Courses

- The need for new career and technical education preparation programs shall be based on labor market needs and student interests.



New Program/Course Application



VIRGINIA DEPARTMENT OF EDUCATION APPLICATION FOR NEW CAREER AND TECHNICAL EDUCATION PROGRAM/COURSE

SCHOOL DIVISION: _____ Date: _____

DIRECTIONS/PROCEDURES

1. Prior to implementing a new CTE program/course, submit an application, along with items "F." Fax to 804-630-4560 or email to CTE@doe.virginia.gov
2. Complete a separate application for each new program/course.
3. Contact the CTE program specialist for assistance as needed.

I. CONTENT AREA

- Agricultural Education
- Business & Information Technology
- Health and Medical Sciences
- Marketing
- Family & Consumer Sciences
- Technology Education
- Trade and Industrial Education
- Career Connections
- Military Science (all Military Branches)
- Other (specify) _____

II. PROGRAM/COURSE INFORMATION (Use state title and course code.)

A. Program/Course Identification:

Title _____ Course Code _____

(NOTE: Use program/course title and code as it appears in the CTERS User's Manual at: http://www.doe.virginia.gov/irfo_management/data_collection/instruction/career_tech/cters/users_manual.pdf)

Length of course _____ Grade level(s) to be served _____

School(s)/Facility where offered _____

Date of implementation _____

B. Person responsible for administering the program:

Name _____ Title _____

Phone _____ Email Address _____

Revised 01/24/2011

- School divisions can request approval of new CTE programs and/or courses at any time during the school year but must have approval prior to implementation.
- The Trailblazers portal serves as a central location for labor market data. It is the primary resource for completing the new program/course application.



Curriculum Review Process



Objective:

To develop relevant and rigorous curriculum frameworks that will prepare students with the academic, employability, and technical knowledge and skills to meet workforce needs in a global economy.



DACUM: Developing A CUrriculuM



DACUM – Developed by the Center on Education and Training for Employment, The Ohio State University

- The process bridges the gap between what is required in the workforce and what is taught in the classroom.
- An effective method of conducting occupational/job analysis.
- Involves a trained facilitator and 10-12 expert workers from the occupation.
- Develop – by consensus – a list of skills performed by the employees within the occupation.



DACUM in the Virginia Curriculum



- Business and industry experts first review the cluster and pathways in a meeting facilitated by a DACUM-certified curriculum designer
 - They identify the modes of work involved in the occupation(s) including the knowledge, skills, and abilities required to perform all tasks at various levels, or the business and industry experts
 - They recommend updates, deletions, and/or additional tasks, and performance objectives for existing courses.
- Teachers meet to review the business and industry experts' recommendations.
 - Teachers then turn those recommendations into tasks and performance objectives that can be taught and measured in the classroom.
- Students enrolled in the courses demonstrate mastery of the content based on the course competencies.

Key DACUM Terms

Job

Forensic Technician

Duties

Several related tasks
Usually 6–12 per job

Duty

Exploring
DNA Testing

Tasks

Specific, meaningful
units of work
*At least 2 per duty and
75–125 per job*

Task

Interpret
DNA results

Definition

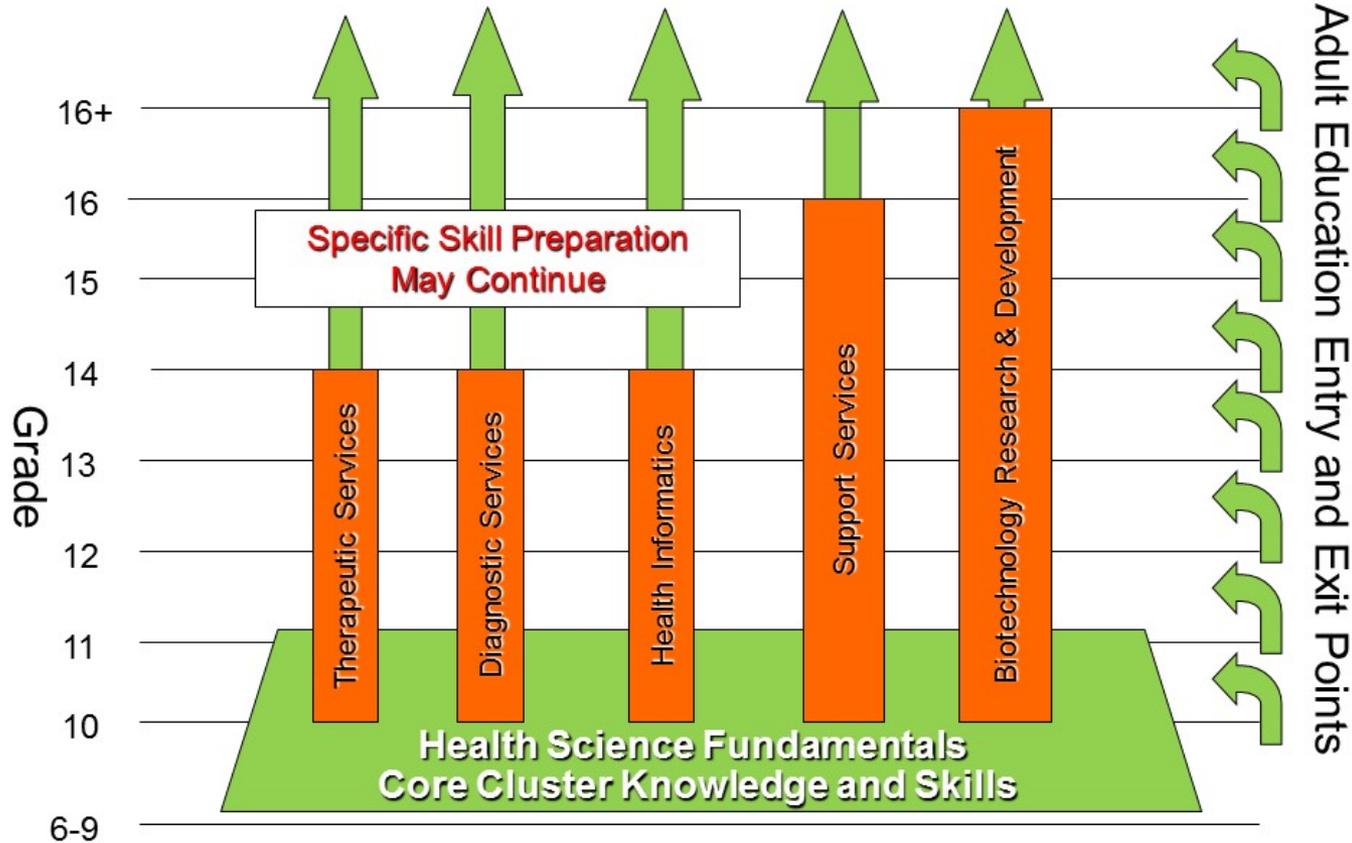
Specific activities
required to perform
a task

Def.

Recognize
patterns in
DNA analysis

Always 2 or more per task

Health Science Cluster & Pathways



Note: Original template designed by Benson Consulting

Middle School Key CTE Clusters and Pathways



- Agriculture, Food & Natural Resources
- Business Management & Administration
- Health Science
- Human Services
- Information Technology
- Science, Technology, Engineering & Mathematics

Middle School CTE Courses in Virginia



- Agriscience Exploration
- Agriscience and Technology
- Career Investigation
- Computer Solutions
- Digital Input Technologies
- Education for Employment
- Family and Consumer Sciences Exploratory
- Gateway To Technology (Core)
- Gateway to Technology (Specialty)
- Health and Medical Sciences Exploratory
- Introduction to Agriscience
- Introduction to Technology
- Inventions and Innovations
- Keyboarding
- Make It Your Business
- Technological Systems

Career and Technical Student Organizations



8VAC20-120-160. Career and Technical Education Student Organizations (CTSO)

- All CTE students shall be provided opportunities to participate in instructional activities of the local organization.
- Each middle school career and technical education program (grades 6, 7, 8) offered shall include co-curricular instructional activities related to the respective CTSO.
- Appropriate CTSO shall be an integral and active part of each secondary career and technical program (grades 9, 10, 11, 12) offered.

CTE Resource Links

Office of Career and Technical Education:

http://doe.virginia.gov/instruction/career_technical/index.shtml

Career Clusters and Pathways

http://www.doe.virginia.gov/instruction/career_technical/career_clusters/index.shtml

Virginia's Educational Resource System Online (VERSO):

<http://www.cteresource.org/verso/>

CTE Administrative Planning Guide (APG)

<http://www.cteresource.org/apg/>

Contact Information

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http://www.doe.virginia.gov/instruction/career_technical/index.shtml