

**CULTURE
THAT
EMPOWERS**

**TECHNOLOGY
THAT
ENABLES**

**OUTCOMES
THAT
MATTER**

**TEACHING
THAT
ENGAGES**



Allegheny High School - A New Tech School

Career Clusters and Academic and Career Plans of Study: Virginia's Best Practices

Allegheny High School

What are Career Clusters?



Career Clusters are groupings of industries that are used for:

- Organizing curriculum design,
- Career counseling,
- Future employment and/or postsecondary education, and
- All students

16 Career Clusters

[http://www.doe.virginia.gov/ Career Clusters/
Pathways](http://www.doe.virginia.gov/Career Clusters/Pathways)



- Agriculture, Food & Natural Resources
- Architecture & Construction
- Arts, A/V Technology & Communications
- Business Management & Administration
- Education & Training
- Finance
- Government & Public Administration
- Health Science

16 Career Clusters

[http://www.doe.virginia.gov/ Career Clusters/ Pathways](http://www.doe.virginia.gov/Career%20Clusters/Pathways)



- Hospitality & Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections & Security
- Manufacturing
- Marketing
- Science, Technology, Engineering & Mathematics (STEM)
- Transportation, Distribution & Logistics

What Do Career Clusters Do?



- Organize academic and technical knowledge and skills into a coherent sequence
- Identify pathways from secondary to postsecondary education
- Provide a framework for seamless education
- Provide instructional support for rigorous academic teaching and learning

What Do Career Clusters Do?

(Continued)



- Provide alignment of academic and technical skills with workplace readiness skills
- Provide opportunities to involve parents, business and industry, and the school community
- Provide the development of effective plans of study that are based on career assessments



Career Clusters: *Multi-Faceted*

- High Schools can be organized around career clusters to prepare students to meet the demands of postsecondary education and the expectations of employers.
- School Counselors can use career clusters to help students explore options for the future.



Career Clusters: *Multi-Faceted*

- Students can use career clusters to investigate a wide range of career choices. Clusters make it easier for students to understand the relevance of their required courses and help them select their elective courses more wisely.
- Parents, educators, and business and industry can use career clusters as a foundation for decision-making.



Career Pathways

- Within each career cluster, there are multiple career pathways that represent a common set of skills and knowledge, both academic and technical, necessary to pursue a full range of career opportunities within that pathway – ranging from entry level to management, including technical and professional career specialties.
- Based on the skill sets taught, all CTE courses are aligned with one or more career clusters and career pathways.

Academic and Career Plan (ACP)



- Aligned with a postsecondary career and/or college entrance;
- Based on student's academic and career interests;
- Required student signature, parent/guardian signatures, and school official(s) designated by the principal;

Academic and Career Plan (ACP) (Continued)



- Notified the parent or guardian of the responsibility for the development and approval of the plan;
- Placed in the student's record; and
- Reviewed and updated before the student enters the ninth and eleventh grades.



SUMMARY

- **Career Cluster** – organizer of knowledge and skills needed by a broad industry
- **Career Pathway** – organizer of knowledge and skills statements shared by professions
- **Plans of Study** – sequence of instruction that prepares individuals for careers
- **Career Plan** – program of study for high school graduation



TEACHING/TRAINING

SUGGESTED OCCUPATIONS: EARLY CHILDHOOD TEACHER, MIDDLE SCHOOL TEACHER, HIGH SCHOOL TEACHER, COLLEGE/UNIVERSITY + FACULTY, CHILD CARE DIRECTOR

Year One

- English 9
- Earth Science
- World History I or World Geography
- Pre-Algebra, Algebra I, Geometry, or Algebra II
- PE/Health 9 & Spanish I or PE/Health 9 & Nutrition & Wellness
- Child Development & Parenting
- Elective (Fine Art, World Language, or CTE Elective)

Year Two

- English 10 and World History II
- Biology
- Algebra I, Geometry, Algebra II, Advanced Algebra/Trig, or Algebra Functions & Data Analysis
- PE 10/Drivers' Education
- Virginia Teachers for Tomorrow I
- World Language
- Elective (Fine Art or CTE Elective)



TEACHING/TRAINING

SUGGESTED OCCUPATIONS: EARLY CHILDHOOD TEACHER, MIDDLE SCHOOL TEACHER, HIGH SCHOOL TEACHER, COLLEGE/UNIVERSITY + FACULTY, CHILD CARE DIRECTOR

Year Three

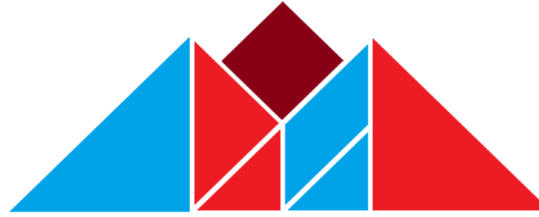
- English 11 and United States History
- Ecology, Anatomy and Physiology, DE Biology, or Chemistry
- Geometry, Algebra II, Adv. Algebra/Trig, Statistics, Algebra Functions & Data Analysis, or Pre-calculus
- Virginia Teachers for Tomorrow II
- World Language
- Economics & Personal Finance
- Elective (Fine Art or CTE Elective)

Year Four

- English 12 and Government
- Ecology, Anatomy and Physiology, DE Biology, Chemistry, or Physics
- Algebra II, Adv. Algebra/Trig, Statistics, Algebra Functions & Data Analysis, or Pre-calculus
- Elective (Fine Art or CTE Elective)
- Internship



**Arts, A/V Technology
& Communications**



Alleghany High School - A New Tech School

VISUAL ARTS

SUGGESTED OCCUPATIONS: ANIMATOR, ART CRITIC, ART THERAPIST, ARTIST, CARTOONIST, CURATOR, DESIGNER, EDUCATOR, ILLUSTRATOR, TEXTILE DESIGNER

Year One

- English 9
- Earth Science
- World History I or World Geography
- Pre-Algebra, Algebra I, Geometry, or Algebra II
- PE/Health 9 & Spanish I
- Art I
- Elective (Creative Writing, Ceramics)

Year Two

- English 10 and World History II
- Biology
- Algebra I, Geometry, Algebra II, Advanced Algebra/Trig, or Algebra Functions & Data Analysis
- PE 10/Drivers' Education
- Spanish II
- Art II
- Elective (Computer Information Systems, Sculpture)



Arts, A/V Technology & Communications



Alleghany High School - A New Tech School

VISUAL ARTS

SUGGESTED OCCUPATIONS: ANIMATOR, ART
CRITIC, ART THERAPIST, ARTIST, CARTOONIST,
CURATOR, DESIGNER, EDUCATOR, ILLUSTRATOR,
TEXTILE DESIGNER

Year Three

- English 11 and United States History
- Ecology, Anatomy and Physiology, DE Biology, or Chemistry
- Geometry, Algebra II, Adv. Algebra/Trig, Statistics, Algebra Functions & Data Analysis, or Pre-calculus
- Spanish III
- Economics & Personal Finance
- Art III
- Art IV

Year Four

- English 12 and Government
- Ecology, Anatomy and Physiology, DE Biology, Chemistry, or Physics
- Algebra II, Adv. Algebra/Trig, Statistics, Algebra Functions & Data Analysis, or Pre-calculus
- Art V
- Elective (Entrepreneurship, Business Management)
- Internship

Elementary Career Education



- Elementary
 - Utilize Career View – an online program for students and parents
 - School Counselor lessons on careers
 - Career Fair (grades 4 & 5)
 - Tour JRTC (grade 5)



Middle Career Education

- Middle School
 - School Counselors review career clusters
 - Wizard – This is an online program provided by Virginia. Students take:
 - Skills and Values Assessment
 - Interest Inventory

These help in the development of the Academic & Career Plan.

- Academic & Career Plans
 - Begin at 7th grade. Parents must sign.



Secondary Career Education

- High School
 - 9th grade
 - Career Tweets
 - Tour JRTC
 - Give Interest, Skills & Values Inventory on Wizard
 - Review ACP with students. Parents must sign.
 - Individual scheduling sessions



Secondary Career Education

- High School
 - 10th grade
 - Job Shadowing
 - Individual scheduling sessions
 - Review ACP
 - Research colleges, universities, technical schools, programs, jobs with Career Coach



Secondary Career Education

- High School
 - 11th grade
 - Individual scheduling sessions
 - Review ACP. Parents must sign the plan
 - Reality Store
 - Dabney Day
 - ASVAB interest inventory
 - Research colleges, universities, technical schools, programs, jobs with Career Coach



Secondary Career Education

- High School
 - 12th grade
 - Individual scheduling sessions
 - Review ACP
 - Research colleges, universities, technical schools, programs, jobs with Career Coach
 - Internships