

Courses Meeting the Technology Education Requirements

Technology Education Course List: Any of these courses meet the Technology Education Graduation Requirement.

Aerospace I - G/T - CT-605-2
Computer Science Principles - AP - CT-405-1
Exploring Computer Science - Honors - CT-400-1
Foundations of Technology - CT-800-1
PLTW Introduction to Engineering Design - G/T - CT-805-1

Program Choices

Students must complete at least one of the following options:

- Option 1: World Language**
2 Credits in World Language including
2 Credits in American Sign Language
- Option 2: Advanced Technology Education Sequence**
2 Credits in an approved Technology Education Sequence
Advanced Technological Applications - CT-890-1
Advanced Design Applications - CT-800-1
The Advanced Technology Education Sequence is not offered at all high schools. Check with the school counselor to determine availability.
- Option 3: Career and Technology Education (CTE)**
4 or 5 Credits in a CTE Program
It is recommended that students choosing Option 3 also take two credits of World Language.

Program Option 3

Career and Technology Education Completer

CTE – Career and Technology Education

Career Academies encompass a range of careers based on essential economic activities, similar interests, common skills, and training required by those in the field. It is a way to organize teaching and learning to meet the specific needs and resources in broad career areas, grouping similar occupations.

Each academy meets all graduation requirements and prepares students either for post-secondary education and/or the world of work. Academy students may participate in special activities and events that provide greater awareness of the specific career area and opportunities within that area. Students will be part of a small group with similar interests completing courses together. The section of this Catalog of Approved High School Courses entitled Career Academies provides guidance regarding course selection, academy prerequisites, special requirements, and information needed to complete each Career Academy Program.

Career Academy Clusters	
Arts, Media and Communication Cluster • Animation and Interactive Media Production • Graphic Design	Health and Biosciences Cluster • Academy of Health Professions (with pathways in Certified Nursing Assistant, Clinical Research in Allied Health, Physical Rehabilitation and Emergency Medical Technician). • Biotechnology Academy
Business, Management and Finance Cluster • Academy of Finance ✕ Marketing Academy ✕ Accounting Academy	Human Resource Services Cluster • Homeland Security and Emergency Management Academy ✕ Teacher Academy of Maryland
Career Connections ✕ • Career Research and Development	Information Technology Cluster ✕ Computer Programming Academy • Cybersecurity Networking Academy with pathways in Computer Networking and PC Systems
Construction and Development Cluster • Architectural Design Academy • Construction Academy • HVAC Academy	Manufacturing, Engineering and Technology Cluster • Aerospace Engineering: Project Lead the Way (PLTW) Academy ✕ Engineering: Project Lead the Way (PLTW) Academy • Systems and Project Engineering Academy
Consumer Services, Hospitality and Tourism Cluster ✕ Culinary Science Academy	Transportation Technologies Cluster • Automotive Technology Academy
Environment, Agriculture and Natural Resources • Agriculture Science Academy	
• ARL-based for 10th, 11th and 12th grade academy courses. ✕ All courses are offered at the local high school.	