

High School CTE Electives

Can give you:

- A chance to try something new.
- Learn a skill
- Find a passion or career
- Earn College Credit

It's free – After high school you will need to pay for these classes 😊



Career Technology Education

Introduction:

- Lorene Cannella – CTE ITL, Computer Science
- Ed Krikorian & Marc Rosenberg
 - Project Lead the Way

Focus:

- CTE Overview
- College Credit CTE Courses
 - AP, Dual Enrollment, PLTW, Completer
- Leadership, Business, & Engineering Clubs

Graduation Requirements

HCPSS Technology Graduation

Requirement Options

- Exploring Computer Science Honors
- PLTW Introduction to Engineering Design G/T (Can earn 3 RIT College Credits)
- Computer Science Principles AP
- Foundation of Technology

AND ONE OF THESE OPTIONS:

- Two Advanced Technology Classes
- Career Academy (CRD, Teacher, PLTW, Culinary, Computer Programming, Marketing, & all ARL)
- Two Foreign Language Classes

Career Technology Education

- **Business** (Principles of Business, Principles of Accounting, Principles of Marketing)
- **Career Research** (Career Research & Development I & II, Site-based Work Experience.)
- **Computer Science** (Computer Science Principles AP, or one of the other Tech. Ed Grad. Req., Programming Fundamentals, Computer Science A – AP, Advanced Object-Oriented Design GT, Advanced Data Structures GT)
- **Culinary** (Food & Nutrition Technology, Culinary Sciences, Advanced Culinary Sciences)
- **Engineering** (Foundations of Technology, Engineering Design, Principles of Engineering, Advanced Design Applications, Advanced Technological Applications, Computer Integrated Manufacturing, Digital Electronics)
- **Teaching** (Foundations of Curriculum & Instruction, Human Growth & Development, Teaching as a Profession)

- **Accounting Academy, Business Management Academy, and Marketing Academy (HCC Credit for some of the courses)**
- **Career Research and Development Academy**
- **Computer Programming Academy**
- **Culinary Science Academy**
- **Engineering: Project Lead the Way Academy**
- **Teaching Academy of Maryland (HCC Credit for some of the courses)**

Freshm and Year and Beyond Your Freshman Year

You can take any of our classes at any time during your high school career as long as you fulfill the prerequisite, if there is one.

If you complete an academy that is wonderful, however if you take a variety of classes in different academies to get different perspectives of careers, that is also wonderful.

Computer Science

Academy Courses

Other Courses

C

Programming
Fundamentals GT
CT – 463 - 1

Computer
Science A – AP
CT – 475 -1

Advanced
Object-Oriented
Design CT – 495 -1

Exploring Computer
Science Honors
CT – 400 -1

Computer Science
Principles AP
CT – 405 -1

Advanced Data
Structures GT
CT – 485 -1

Computer Science AP Courses

Computer Science A – AP (Course # CT-475-1)

- Second Year High School Programming Course
Pre-req: Programming Fundamentals GT Course # CT-463-1 or Computer Science Principles AP CT-405
- Can fulfill entry level computer science course at the college level.
- AP Exam – with appropriate score credits honored at many colleges

Principles of Computer Science – AP (Course # CT-405-1)

- Fulfills required technology graduation credit
- Prerequisite – Algebra I
- Strong writing skills
- General Entry Level Class which focuses on topics such as the Internet, Digital Information, Programming, Big Data, & Building Apps
- AP Exam – with appropriate score credits honored at many colleges.



Project Lead the Way



- Pre-Engineering Academy is a four-year sequence of five courses.
- Combined with traditional mathematics and science courses
- Students are introduced to the scope, rigor and discipline of engineering prior to entering college.

Grade 9	Grade 10	Grade 11	Grade 12
<i>PLTW Introduction to Engineering Design G/T (Can earn 3 College Credits) CT-805-1</i>	<i>Principles of Engineering G/T (Can earn 3 College Credits) CT-815-1</i>	<i>Digital Electronics G/T (Can earn 3 College Credits) CT-825-1 Computer Integrated Manufacturing G/T (Can earn 3 College Credits) CT-835-1</i>	<i>Engineering Design & Development G/T CT-845-1</i>

Co-curricular CTE Clubs/Organizations at MRHS

- Future Business Leaders of America (FBLA) - Ms. Miller
- Educators Rising - Ms. Burke
- She++ Programming Club - Ms. Alexander
- National Technical Honor Society (NTHS) – Ms. Cannella
- Gaming Club – Mr. Fagan
- Computer Science Club – Mr. Krikorian
- Engineering Club – Ms. Jenkins
- Health Occupational Students of America (HOSA) - Mr. Eckert