

## SUMMARY OF COMPUTER SCIENCE AND BUSINESS CLASSES 2021 - 2022

### AP Computer Science A Grades 11-12

Introduction to computer science concepts  
Programming using Java

### AP Computer Science Principles Grades 11-12

Introduction to computer science  
Project submission for AP Exam

### CDE On-The-Job Training (OJT) Grades 11-12

*Co-Requisite: have taken a career/technology class sometime during high school*  
Students must work 6 hours per week, per period of OJT

### Customer Service Representative 1, 2, 3 Grades 9-12

Student assistant  
MOS (Office) Industry Certification opportunity

### Digital Information Technology Grades 9-12

*Satisfies the one year Fine Arts graduation requirement*  
MOS (Office) Industry Certification opportunity  
Touch keyboarding  
Office 2016

### Digital Design 1 Grades 10-12

*Satisfies the one year Fine Arts graduation requirement*  
Adobe Photoshop industry certification opportunity  
Adobe InDesign and Adobe Photoshop

### Digital Design 2 Grades 11-12

*Satisfies the one year Fine Arts graduation requirement*  
Adobe Photoshop industry certification opportunity  
*This is an Honors course.*  
*Prerequisite: Digital Design I*  
Adobe InDesign, Photoshop and Illustrator

### Emerging Technologies in Business Grades 9-12

Semester course  
Office 2016 – Sway and Mix  
Technology and labor trends, interest and personality inventories, and career research project and presentation

### Fundamentals of Web Design (Web 1) Grades 9-12

*Satisfies the one year Fine Arts graduation requirement*  
Adobe Dreamweaver and MTS for HTML/CSS industry certification opportunity  
*This is an Honors course.*  
Hard code HTML web pages; introduction to Dreamweaver; use Photoshop for image editing  
Proficient typing skills are recommended.

### Java Programming Essentials Grades 10-12

*This is an Honors course.*  
This course provides foundational skills in computer science and computer programming concepts specific to the Java programming language. This course may be taken in preparation for the AP Computer Science A course.

### Tech Support Services I – Client Systems Grades 10-12

*This is an Honors course.*  
Build a computer  
Learn how hardware and software work

### Tech Support Services II – Network Sys. Grades 11-12

MTA industry certification opportunity  
*This is an Honors course.*  
*Prerequisite: PC Software Support I*  
Students could be used as maintenance and repair technicians school-wide.

### User Interface Design (Web 2) Grades 10-12

*Satisfies the one year Fine Arts graduation requirement*  
Adobe Animate and Photoshop industry certification opportunity  
*This is an Honors course.*  
*Prerequisite: Web Design I*  
Dreamweaver Web Development Application; Adobe Animate; Web Site promotion, and multimedia applications

#### Courses that earn Honors points

Digital Design  
Technology Support Services 1, 2  
Web Design 1, 2  
Java Programming Essentials

#### Courses that satisfy the one year Fine Arts graduation requirement:

Digital Information Technology  
Digital Design 1, 2  
Web Design 1, 2

#### Industry Certifications/Courses

Microsoft Office Specialist (MOS)  
Customer Service Representative  
Digital Information Technology  
Adobe Photoshop  
Digital Design  
Web Design 1  
Adobe InDesign  
Digital Design 1  
Adobe Illustrator  
Digital Design 2  
Adobe Dreamweaver  
Web Design 1, 2  
Adobe Animate  
Web Design 2  
Microsoft Technology Associate  
Technology Support Services 2  
Web Design 1, 2

#### Suggested Computer Science Course Flow:

9<sup>th</sup> grade - DIT or Fundamentals of Web Design  
10<sup>th</sup> grade – Java Programming Essentials  
11<sup>th</sup> grade – AP Computer Science A (Java)  
12<sup>th</sup> grade – AP Computer Science Principles

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