

# BE 3217 : Advanced Creative Coding and Computer Solutions

Virginia Beach City Public Schools ensures equal access to all CTE courses. Accessibility accommodations will be provided as needed.

This semester course is a culmination of topics covered in the previously completed Foundations of Creative Coding and Computer Solutions, and the Creative Coding and Computer Solutions II courses. Students will take a closer look at cloud computing, app design, privacy and encryption. This course concludes with the development of an independent project where students work to design, build, present, and market a game or app. Admission to this course is based upon the successful completion of the Foundations of Creative Coding and Computer Solutions course as well as the Creative Coding and Computer Solutions II course.

## Subject Area

Business and Information Technology

## Level

Middle School

## Grades

6

7

8

## Prerequisites

Foundations of Creative Coding and Computer Solutions, and Creative Coding and Computer Solutions II







## Semesters

1

## Parent Docs

[Advanced Creative Coding and Computer Solutions Parent Doc 2021-2022](#)

## Storyboard

	Keyboarding Skills	Word Processing	Databases	Spreadsheet	Telecommunications and Computer Maintenance	Ethical and Security Problems
Unit						
Focus	At the beginning of this course journey, we examine ergonomic guidelines and products related to safe computer use. We continue to utilize proper keying techniques to maintain or increase our speed and accuracy.	Next, we utilize the advanced features of a word processing program to create documents that solve problems and communicate a variety of messages.	Then, we continue developing our database skills by defining fields and designing formats in the database structure.	After reviewing the structure of a spreadsheet, we organize and analyze data in a format that helps solve problems.	Next, we examine network communication systems and emerging technologies to determine availability and options needed for security and maintenance.	Using devices in a digital environment increases our need to know how to safeguard our computer systems and how to conduct ourselves in a respectful manner while online.
Transfer Goals	<ul style="list-style-type: none"> <li>Bridge the academic, employability, and technical skills to prepare us for emerging occupations.</li> <li>Empower us to be successful citizens, workers, and leaders in a global economy.</li> </ul>	<ul style="list-style-type: none"> <li>Bridge the academic, employability, and technical skills to prepare us for emerging occupations.</li> </ul>	<ul style="list-style-type: none"> <li>Bridge the academic, employability, and technical skills to prepare us for emerging occupations.</li> </ul>	<ul style="list-style-type: none"> <li>Bridge the academic, employability, and technical skills to prepare us for emerging occupations.</li> </ul>	<ul style="list-style-type: none"> <li>Bridge the academic, employability, and technical skills to prepare us for emerging occupations.</li> </ul>	<ul style="list-style-type: none"> <li>Bridge the academic, employability, and technical skills to prepare us for emerging occupations.</li> <li>Empower us to be successful</li> </ul>

<b>Unit Learning Targets</b>		<ul style="list-style-type: none"> <li>• Empower us to be successful citizens, workers, and leaders in a global economy.</li> </ul>	<ul style="list-style-type: none"> <li>• Empower us to be successful citizens, workers, and leaders in a global economy.</li> </ul>	<ul style="list-style-type: none"> <li>• Empower us to be successful citizens, workers, and leaders in a global economy.</li> </ul>	<ul style="list-style-type: none"> <li>• Empower us to be successful citizens, workers, and leaders in a global economy.</li> </ul>	<ul style="list-style-type: none"> <li>citizens, workers, and leaders in a global economy.</li> </ul>
	<ul style="list-style-type: none"> <li>• Key alphabetic, numeric, and symbol information, using a touch system and correct techniques.</li> <li>• Improve keying technique, speed, and accuracy.</li> <li>• Describe ergonomic guidelines related to safe computer use.</li> </ul>	<ul style="list-style-type: none"> <li>• Format existing documents.</li> <li>• Create documents to communicate messages to specific audiences.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify the structure of a database.</li> <li>• Create a database by defining fields and designing formats.</li> </ul>	<ul style="list-style-type: none"> <li>• Input data and formulas.</li> <li>• Create graphs and charts to visually represent data.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify emerging technologies available to solve specific problems.</li> <li>• Identify local and worldwide network communication systems.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify security issues related to hardware, software, and data.</li> <li>• Explore problems involving integrity, courtesy, and confidentiality related to information and communications systems.</li> </ul>