West Virginia CTE

Coding, App & Game Design I

Digital Ethics	1	Students will demonstrate knowledge of globalized culture in online communities and copyright and creative commons laws 1456.1
	2	Students will describe globalized culture in online communities 1456.2
	3	Students will demonstrate awareness of global, cultural values, identities, and beliefs 1456.3
	4	Students will locate information on professional online forums 1456.4
	5	Students will demonstrate knowledge of copyright, creative commons, and fair use laws 1456.5
	6	Students will locate media that has been published under public domain and appropriate creative commons licenses 1456.6
App/Game Design Elements and Principles	7	Students will demonstrate knowledge of app design terminology and app design elements and principles. 1456.7
	8	Students will demonstrate proper use of various image file types including .jpg, .png, .gif, etc. 1456.8
	9	Students will create core application features including prototypes, user interface mechanics and purpose statements for new software applications. 1456.9
	10	Students will create text. 1456.10
	11	Students will create original images and animations for use in the creation of their own software applications 1456.11
	12	Students will create animations that enhance the design of the application 1456.12
Original App/Game Production	13	Students will demonstrate knowledge of production process of software applications and publication process of software applications 1456.13
	14	Students will design and document all aspects of formal application design, using screenshots, sample menu layouts, and other graphical devices. 1456.14
		Students will make content development decisions based on analysis and interpretation of design specifications. 1456.15

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	16	**Students will complete the process of producing a fully functional software application** 1456.16
	17	**Students will publish and export software applications** 1456.17
	18	**Students will make software application execution files accessible.** 1456.18
App/Game Evaluation	19	**Students will demonstrate knowledge of technical tests and design reviews** 1456.19
	20	**Students will conduct basic technical alpha and beta tests.** 1456.20
	21	**Students will conduct regular design reviews throughout the application development process.** 1456.21
	22	**Students will integrate feedback from others into original application design.** 1456.22
	23	**Students will evaluate competitive products, film, music, television and other art forms** 1456.23
Coding Processes	24	**Students will demonstrate knowledge of key elements of programming languages and logical process of coding sequences** 1456.24
	25	**Students will compare and contrast programming languages commonly used in app developments, including JavaScript, Object-C, Ruby, Python, C++, C#, and Java** 1456.25
	26	**Students will describe sequence commands, procedures, variables, methods, objects and loops** 1456.26
	27	**Students will identify patterns in software design elements** 1456.27
	28	**Students will identify multiple platforms that enable software and application development** 1456.28
Coding Languages and Design	29	**Students will demonstrate knowledge of methods of structuring events and methods of structuring user interface and design elements** 1456.29
	30	**Students will create variables, methods, and objects using a coding language** 1456.30
	31	**Students will utilize if then and else statements and conditions** 1456.31
	32	**Students will animate the movement of a character using sequencing** 1456.32
		Students will use alert commands to display messages 1456.33

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34 **Students will import orginal images and media files from local directory through code commands** `1456.34`

35 **Students will design a fully functional application utilizing code commands** `1456.35`