**The Pennsylvania State University**

**Workforce Education and Development**

**Lesson Plan**

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|  **Name of Instructor:** *Jamie Redcay* |
| **Program Title:** *Web Page, Digital/Multimedia and Information Resources Design (CIP 11.0801)* |
|  **Course Title:** *Interactive Media & Web Design* |
|  **Unit Title:** *7000 - Coding* |
|  **Lesson Title**: *(7120) Coding Unit 03 – Web Page Construction* |
|  **Lesson Performance Objective:***- Given a series of lectures, hand-outs and activity on coding student will complete a worksheet, activities and online test with 70% accuracy.* |
|  **Time (length of lesson):** *3 – 50 min sessions* |
|  **Equipment and Materials needed:** *This lesson will require a TV or projector & workstation with an internet connection, web browser (Google Chrome) and a text editor (Brackets). The teacher also needs Powerpoint.* |
|  Technical Standard(s):13.1.11.A Relate careers to individual interests, abilities, and aptitudes.13.1.11.G Assess the implements of the individualized career plan through the ongoing development of the career portfolio.13.2.11.A Apply effective speaking and listening skills used in a job interview.13.2.11.B Apply research skills in searching for a job: Career Links, Internet (i.e. O-NET), Networking, Newspapers, Professional associations and resource books (that is Occupational Outlook Handbook, PA Career Guide).13.2.11.C Develop and assemble, for career portfolio placement, career acquisition documents, such as, but not limited to: job application, letter of appreciation following an interview, letter of introduction, post secondary education/training applications, request for letter of recommendation, and resume.13.2.11.D Analyze, revise, and apply an individualized career portfolio to chosen career path.13.3.11.A Evaluate personal attitudes and work habits that support career retention and advancement. |
|  Academic Standard(s):CC.3.5.11-12.B Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.CC.3.5.11-12.C Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.CC.3.5.11-12.E Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.CC.3.5.11-12.F Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.CC.3.5.11-12.G Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem. CC.2.1.HS.F.1 Apply and extend the properties of exponents to solve problems with rational exponents.CC.2.1.HS.F.2 Apply properties of rational and irrational numbers to solve real world or mathematical problems.CC.2.1.HS.F.4 Use units as a way to understand problems and to guide the solution of multi-step problems.CC.2.1.HS.F.6 Extend the knowledge of arithmetic operations and apply to complex numbers.CC.2.2.HS.D.9 Use reasoning to solve equations and justify the solution method.CC.2.3.HS.A.13 Analyze relationships between two-dimensional and three-dimensional objects. |
| **Introduction:** *The instructor will open with a statement* ***– In this Unit we will be ramping up Web Page Construction, from conception to blueprint, to the finishing touches.*** |
|  **Body:** *Students will follow a Power point presentation in 3 sections. During the presentation students will complete focused worksheets (Create Rough Sketches Exercise, Adding Elements & Code, Crossword, Bulletpoints Nesting Mismatch challenge). In addition, students will actively code HTML & CSS files.* |
|  **Summary:***Students will learn the layout structure for HTML, add tag syntax to develop a simple web page.* |
|  **Student Assessment****Formative Assessment(s):** **Summative Assessment:** *Students will take an online knowledge test via Canvas to verify they know how to create HTML tags and HTML Web Page structure.* |
| **Universal Design for Learning (UDL)****Multiple Means of Engagement:** *We are learning this information to be sure all style of learners learns about creating HTML tags and HTML Web Page structure.***Multiple Means of Representation:** *We will learn the proper and most efficient way to add code to a HTML web site.***Multiple Means of Expression:** *We will have a verbal discussion, written exercises, a video lecture and online evaluation so all style of learns have an opportunity to receive the lesson.* |