Wallenpaupack Area School District

Wallenpaupack Area High School
Course title: Web Technology
Length of Course: Full Semester – 0.5 credit

District Policies:

Academic Integrity:

Academic integrity is essential to the success of an educational community. Students are responsible for learning and upholding professional standards of research, writing, assessment, and ethics in their areas of study. Written or other work which students submit must be the product of their own efforts and must be consistent with appropriate standards of professional ethics. Academic dishonesty, which includes cheating, plagiarism, multiple submissions and other forms of dishonest or unethical behavior, is prohibited.

Assessment:

The goal of grading is to report student progress and achievement to the parents to strengthen the home-school connection. The grade should accurately reflect the student's performance in mastering the PA Standards and the WASD curriculum.

Attendance:

Regular school attendance is vitally important to academic success. Not only does attendance reinforce and enrich the learning process; it also establishes patterns and attitudes that will carry forward into adult work habits. Regular, consistent attendance is a prerequisite to successful school life. Children should be absent only in cases of illness or emergency.

Course Description:

The Internet has revolutionized all aspects of modern life, and society is approaching a state where almost every individual and organization has a web presence. The original World Wide Web was designed for presentation of static information. Modern technologies allow the web to be participatory. Users interact with sites and with each other, generating new content and organizational structures. Information about individuals is gathered and made available at an unprecedented rate. This introductory course uses the web development tools Adobe Dreamweaver, Fireworks and Flash. Web Technology is an elective that teaches technology as a tool to research, organize, evaluate and communicate information. Students will develop skills of personal productivity, creativity, critical thinking and collaboration in the classroom. Using digital technology, students will access, manage, integrate, evaluate, and create information in order to function in a knowledge-based economy.

Pennsylvania State Standards:

Science and Technology Education

3.7.10.C: Apply basic computer operations and concepts.
3.7.10.D: Utilize computer software to solve specific problems.
3.7.10.E: Apply basic computer communications systems.
3.7.12.C: Evaluate computer operations and concepts as to their effectiveness to solve specific problems.
3.7.12.D: Evaluate the effectiveness of computer software to solve specific problems.
3.7.12.E: Assess the effective of computer communications systems.

Reading, Writing, Speaking, and Listening

1.6.9.B: Demonstrate awareness of audience using appropriate volume and clarity in formal speaking presentations.
1.8.9.B: Conduct inquiry and research on self-selected or assigned topics, issues, or problems using information from a variety of sources and document sources by using a consistent format for citations.
Organize information logically as it relates to research topic.
Evaluate information sources for relevance and credibility.
1.9.9.A: Use media and technology resources for research and problem solving in content learning.
1.9.9.B: Analyze the techniques of media messages to evaluate how they influence society.

Mathematics

2.5.11.B: Use symbols, mathematical terminology, standard notation, mathematical rules, graphing and other types of mathematical representations to communicate observations, predictions, concepts, procedures, generalizations, ideas, and results.

Career Education and Work

13.1.11.B: Analyze career options based on personal interests, abilities, aptitudes, achievements and goals.

Wallenpaupack Area School District – Technology Literacy Standards

Standard 1: Demonstrate proficiency in the use of computer and applications, as well as an understanding of the concepts underlying hardware, software and connectivity.

Standard 2: Demonstrate the responsible use of technology and an understanding of ethics and safety issues in using electronic media at home, in school and in society.

Standard 3: Demonstrate the ability to use technology for research, critical thinking, problem solving, decision making, communication, collaboration, creativity and innovation.

Course Objectives:

This course emphasizes the development of student's productivity and efficiency in the use the Adobe web development tools Dreamweaver, Fireworks and Flash. Students will use these tools to create, organize, evaluate and communicate web-based information.

Students will demonstrate a sound understanding of the concepts underlying hardware, software and connectivity.

- Discuss current computing technologies
- Identify and explain network topologies and protocols
- Discuss social and ethical implications of copyright infringement and content development
- Identify web development based careers and opportunities

Students will use Adobe Dreamweaver to:

- Define a website.
- Create a homepage.
- Organize website files and folders
- Become skilled in designing and formatting web-based content.
- Learn to manage multi-page websites.

Students will use Adobe Fireworks to:

- Differentiate between graphics file formats
- Create hyperlink graphics
- Align, resize and resample images
- Optimize and export Fireworks images
- Import Fireworks images into Dreamweaver

Students will use Adobe Flash to:

- Use the assets panel to access Flash movie files
- Demonstrate proficiency with the basic features and functions of flash
- Create frame by frame animation
- Export Flash documents
- Import and export sound files and video and animate text

Major Activities to Support Course Objectives:

Dreamweaver: TBD
Fireworks: TBD
Flash: TBD
Integrated Project: Final Project integrating all three applications

Student Responsibilities:

Attendance expectations:

Attendance is central to your success in this class. Due to the nature of this class, the coursework is completed during the class period; therefore, any absence will result in the student missing work which must be completed.

Homework expectations:

Homework is not assigned in this class. All work will be completed in class. However, if more time is needed to complete assignments, students will be required to complete the work at home or during after-school computer lab.

Make-Up Work: Students will be given one day for each day you are ***excused*** from class to turn in make-up work. All assignments and information can be found online or by asking the instructor. They will also receive a missing assignments form with all of the missing assignments, the due date, and your current grade. If you have any trouble completing the assignments please contact me BEFORE class begins for help.

Late Work: Any work that is turned in late will lose five (5) points for each day late. If the work is late more than five (5) days, the student will receive a grade of 0%.

Assessment:

Grading Components:

- Study Guides— Study Guides are used to organize lecture notes and text book material to increase your comprehension and memory of large amounts of information. Students will be required to complete a study guide for each chapter. Students will read each chapter, fill in the study guide, and then use it to study for quizzes and tests.
- Exercises—Numerous exercises of appropriate difficulty level are assigned. Cross-curricular content is integrated into the exercises. Students are required to complete certain exercises at the end of each chapter in the textbook.
- Quizzes—Students should expect a quiz prior to the test. Quizzes allow teachers to assess whether students learned the required/necessary material.
- Exams—Students should expect an exam approximately every 5-6 class periods of the semester. Exams will consist of objective, true/false, and matching questions as well as problem-based questions.
- Projects—Students will be assigned random projects based on the content learned. These projects will allow students to exhibit proficiency in skills obtained and learned information within the content area.
- Class Participation—Students are to contribute within class as it can yield a positive contribution towards their final grade. Students are encouraged to add ideas and information into every day discussions.

Quarter Grades:

Classwork (study guides, exercises, projects, participation) = 50-60%
Tests and Quizzes = 50-40%

Final Exam: Final exam is valued at 14% of the student's final average

Content Pacing Guide:

Topic	Major Assignments	Estimated Time
Chapter 1 - Networks and Internet	TBD	5 blocks
Chapter 2 - HTML	TBD	5 blocks
Chapter 3 – Introducing Dreamweaver	TBD	7 blocks
Chapter 4 – Website Development	TBD	10 blocks
Chapter 5 – Working with Images in Dreamweaver and Fireworks	TBD	10 blocks
Chapter 6 – Typography, Style Sheets and Color	TBD	10 blocks
Chapter 7 – Introducing Flash	TBD	10 blocks
Chapter 8 – Website Content, Forms and Dynamic Web Pages	TBD	10 blocks
Chapter 9 – Publishing and Promoting a Website	TBD	10 blocks
Final Project	TBD	10 blocks
Final Exam Review and Test	TBD	3 blocks