

Wallenpaupack Area School District

Wallenpaupack Area High School

Course Title: Computer Programming

Length of Course: Full semester - 1 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.

Special Education:

Our commitment to each student is to ensure a free appropriate public education which begins with the general education setting, with the use of Supplementary Aids and Services. Inclusive education describes the successful education of all students with the appropriate supports and services to participate in and benefit from the general classroom settings and other educational environments.

Course Description: This course presents the basics in using a single programming language for problem formulation and solution. JAVA is used as the programming language. The course will cover typical programming processes, internal computation, input/output, decision/control, database management, and working with applications.

Pennsylvania State Standards: All WAHS courses are aligned to the PA State Standards and Common Core Standards, where applicable.

15.4.12.H: Use programming languages to develop logical thinking and problem solving skills.

15.4.12.J: Create a complex computer program to solve a problem.

Major Activities:

- Exercises creating Applets that implement ActionListener, MouseListener, MouseMotionListener, and KeyListener.
- Projects creating Applets that implement ActionListener, MouseListener, MouseMotionListener, and KeyListener.
- Daily logic discussions about different thinking problems and puzzles.

Student Responsibilities: Internet usage is forbidden unless otherwise specified. This means, in simple terms, if you are caught playing games, checking your email, or just simply "surfing the net," then you are **breaking the rules**. External storage devices are prohibited on the network unless approved by me. You are encouraged to discuss the course material with other students. You must, however, do the actual work yourself. Duplicated assignments will not be accepted, and will negatively affect your grade. **NOTE:** Breaking the rules for the first time will result in a warning. The second time you will lose all computer privileges for the day. The third time you will lose all computer privileges for the semester. Trust me; this course can be completed without the use of a computer since all programs can be hand written.

Homework expectations: There will be limited homework in this class that will be expected to be completed on time.

Make-up work: Missed work (homework, quizzes, and tests) due to absences may be turned in or completed for credit upon your return to school.

Late work: Late work will not be accepted for full credit unless it is brought to my attention BEFORE the due date. If there is a legitimate issue, then assignments can be turned in late. If it is not cleared by me, then it will lose points every day that it is late.

Assessment:

Grading components: Below is a rough outline for what the grade is going to be consisted of.

ASSESSMENT	TOTAL POINTS AVAILABLE
Chapter Review Questions – selected to prepare for the chapter test	30
Classroom Exercises/Open Book Quizzes – small scale assessments	60
Closed Book Exams – 3 tests per quarter including true/false, multiple choice, short answer, and application questions	300
Projects – 1 project used as a cumulative assessment of the information learned in each quarter	110
Daily Programs – assigned either from the text or on an assignment sheet.	300
NOTE: There will be a final exam administered during the designated final exam date/time.	1/7 of Final Grade

Content Pacing Guide: Below is a rough outline of what is going to happen throughout the course.

Topic	Major Assignments	Estimated Time
TEXTBOOK CHAPTER	ASSIGNMENT(S)	
Quarter 1		
Chapter 3 – <i>Introducing Visual Basic .NET</i>	Review exercises, review questions, Test #1	3 Weeks
Chapter 4 – <i>Variables and Constants</i>	Review exercises, review questions, Test #2	3 Weeks
Chapter 5 – <i>Controlling Program Flow with Decision Structures</i>	Review exercises, review questions, Test #3, Project #1	3 Weeks
Quarter 2		
Chapter 6 – <i>Controlling Program Flow with Looping Structures</i>	Review exercises, review questions, Test #4	3 Weeks
Chapter 7 – <i>Procedures</i>	Review exercises, review questions, Test #5	3 Weeks
Chapter 10 – <i>Color and Graphics</i>	Review exercises, review questions, Test #6, Project #2	3 Weeks
If Time: JAVA introduction	Labs: 1 - 15	
FINAL EXAMINATION	FINAL PROJECT	

After School Computer Lab is available to complete work if you are behind. Please listen to the announcements for the time and location.