

Portland Public Schools

Course Number: 03970L1, 03970L2	School: Wilson High School	
Subject: Math	Course Title: Computer Science 7-8	Grade Level: 10-12
Prerequisites: Completion of Computer Science 5-6 (03970K1) AND teacher recommendation.		
<p>Course description (forecast guide): Students will learn to write Java applications and applets. Java programming structures are the focus of the first semester. The second semester will contain a study of data structures (array lists, linked lists, binary trees, etc) and sorts. Material learned in this course will be preparation for the level A computer science Advanced Placement exam. AP candidates will need to do extra work outside of class.</p>		
<p>Learning objectives: The student should be able to:</p> <ul style="list-style-type: none"> • Design and write programs to solve problems. • Document programs appropriately. • Display appropriate programming design and style in the programs written. • Design and implement larger programs for projects. 		
<p>References, text book(s), resources: Java Software Solutions for AP Computer Science, Lewis-Loftus-Cocking, 2004, Addison Wesley Code Warrior LE 2.0 IDE (Java language and development environment)</p>		
<p>Assessment/evaluation/grading policy: Evaluation of Course Work: Students work on an independent study basis completing lessons assigned. All programs are kept in a notebook that is graded periodically throughout the quarter. Computation of Course Grade: The notebook grade constitutes 50% of the grade for the course. Tests are also given and count 50%. 90-100=A, 80-89=B, 60-79=C, 50-59=D, 0-49=F</p>		
<p>Behavioral expectations: Students must be able to work well, independently. Students will not be required to do assignments outside of class. They will be given class time to do all work. If a student is absent he/she will need to catch up on missed work by coming to the lab outside of class time. Students may work on the design of programs at home as the programs become more complicated (provided the student has his/her own Java compiler).</p>		
<p>Safety issues and requirements: None</p>		
<p>Additional opportunities: Check if appropriate/support requested</p> <p>() field trips () work shadows related to curriculum</p>		

- paid or non-paid internships
- project-based learning
- service-learning

Schedule of topics/units covered (optional)
Chapters: 1 - 10. Java Software Solutions

Student Accommodation(s) and support available: (e.g., tutoring, differentiated instruction):
Assistance before and after school, as needed. Other accommodations, as needed.

Signature of instructor completing this form: *Diana M. Fisher*

Effective date of syllabus: 9/05/2007

School year: 2007-2008

Department Head Approval (if applicable)

Administrator Approval: