

AP Computer Science A
Northview High School
2017-2018

Ms. Denise Peek -- Room 437

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Course Overview: The AP Computer Science course is a yearlong, two-semester course which lays the foundation for object-oriented programming. Students will learn about the design of algorithms, data structures and programming techniques. Java is used as the language to explore these concepts. All students will be expected to take the AP exam in the afternoon of Tuesday, May 15, 2018.

The following goals apply to the AP Computer Science A course when interpreted within the context of the course. Students should be able to:

- design, implement, and analyze solutions to problems.
- use and implement commonly used algorithms.
- use standard data structures.
- develop and select appropriate algorithms and data structures to solve new problems.
- write solutions fluently in an object-oriented paradigm.
- write, run, test, and debug solutions in the Java programming language, utilizing standard Java library classes and interfaces from the AP Java subset.

Textbook: Java Software Solutions for AP Computer Science (\$65.00)

Software: Java SDK 1.5, repl.it, DrJava, Alice

Student Evaluation:

Homework/Classwork: Students should expect reading and/or a homework assignment most nights. It is the expectation of the teacher that all homework will be completed before the start of class and will be the student's own work. Classwork should be completed as assigned during class. Because homework and classwork answers are discussed at length in class, **any work not turned in by the due date will be considered late and will result in a maximum of 50% credit.**

(15% of total grade)

Labs: Success in AP Computer Science requires completion and understanding of labs that will be completed during class. At any time, the teacher can collect completed labs or give a quiz over specific information from a lab that has been completed as part of the course.

(15% of total grade; lab quiz scores will be counted as a quiz grade.)

Quizzes: Each unit may have at least one quiz. Quizzes will be given to gauge students' understanding of the required reading and assignments. These quizzes can be announced or unannounced.

(15% of total grade)

Unit Tests: Each test will cover one chapter. Each test will consist of a multiple-choice section and a free-response section.

(40% of total grade)

Final Exam: The comprehensive final exam will be taken during the class final exam period.

(15% of total grade)

Class Information: All important class information will be posted on our Google Classroom page. All students are required to join. Because each period will be a separate Google Classroom group, the group code will be shared in class.

Notebook: Students are expected to keep all work for this course organized in a notebook (any type of notebook – 3-ring binder, spiral bound, etc. is acceptable) for future reference. Most assignments will be electronic; however, students are expected to keep paper quizzes, tests, and worksheets available for review.

Materials Needed Daily: Pencil, textbook, notebook, flash drive OR access to email.

Make-Up Work: Following an absence, it is the student's responsibility to **review the Google Classroom page** to see what he or she missed. Students are given the same number of days to complete make-up work as the absence. The teacher will establish a reasonable schedule for completing tests, quizzes, etc. that **cannot** be done independently by the student. (Note: All test and quiz makeup sessions will take place before or after school. Failure to attend a scheduled makeup session could result in a reduction of your grade. Please plan accordingly.)

Assignments made prior to the absence, including tests/quizzes scheduled for the day of return, are due upon the student's return. *Students who are present for any portion of the school day are expected to turn in all assignments due on that day in order to receive full credit. This includes missing class for a field trip or other school activity. If a student checks in or out on a test day, but misses the test, they must make arrangements THAT DAY to make up the test.*

Failure to complete make-up work within the designated time frame may result in a grade reduction or loss of credit for the assignment. Assignments missed due to pre-arranged absences are due upon the student's return unless the teacher has approved other arrangements in advance.

Teacher Availability: The easiest way to contact me is through email. I am available for extra help most mornings and at lunch by appointment. Please do not hesitate to ask for help. I am more than willing and welcome the opportunity to help you succeed.

Recovery Policy: Please refer to the Student Handbook for the Recovery Policy.

Note: Syllabus and class expectations can change at the teacher's discretion, and any change will be posted on the class website as well as announced in class.

Headphones/iPods/music or game devices cannot be used in Career Tech classes unless it is part of the course curriculum.

Sincerely,
Ms. Denise Peek

