

Computer Science Principles
Northview High School
2016-2017

Ms. Denise Peek -- Room 435

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Course Overview: The Computer Science Principles course is a yearlong, two-semester course which introduces students to the central ideas of computing and computer science, fosters practices of computational thinking, and explores how computing and computer science change the world.

The areas of study will be organized around the following 7 Big Ideas:

- Creativity
- Abstraction
- Data and Information
- Algorithms
- Programming
- The Internet
- Global Impact

Resources: Abelson, H., Ledeen, K., and Lewis, H. Blown to Bits: Your Life, Liberty, and Happiness After the Digital Explosion. 2008 (selected chapters to be announced). This book can be downloaded for free from <http://www.bitsbook.com/>.

Web-based resources such as Berkeley’s Beauty and Joy of Computing (<http://bjc.berkeley.edu/website/curriculum.html>) and How To Think Like a Computer Scientist (<http://interactivepython.org/courselib/static/thinkcspy/index.html>) will also be used.

Software: Alice, Snap!, Earsketch

Student Evaluation:

Classwork/Homework: 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.**

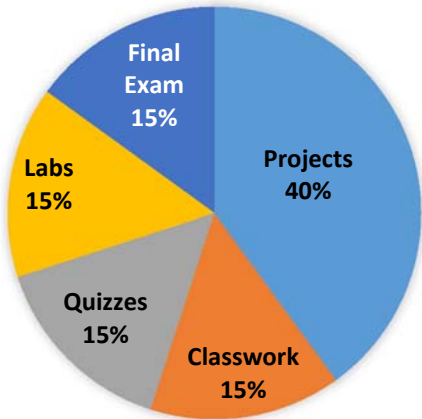
(15% of total grade)

Labs: Success in Computer Science Principles 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)*

Projects: Each unit will culminate in a project which should be essentially completed during class time. Some projects will be completed individually and others in collaborative groups. Students will be expected to present their projects to the class. *(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 class Edmodo page. All students are required to join and **parents are highly encouraged to join the class page.** The group code is **g2bqzq**.

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, notebook, flash drive

Make-Up Work: Following an absence, it is the student's responsibility to **review the class Edmodo 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 projects, quizzes, etc. that **cannot** be done independently by the student. (Note: All project 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 projects/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 an assessment day, but misses the assessment, they must make arrangements THAT DAY to make up the assessment.*

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.

Cell phones/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

