

La Cañada High School
Honors Computer Science C++
Course Guidelines

Teacher: Mr. Clausen email: dclausen@lcsd.net
Subject: Honors Computer Science C++ Web Site: http://www.clausentech.com/lchs/dclausen/cs_cpp_hnr/
Classroom: Room 607

Course Description / Learning Objectives

This course assumes some prior knowledge of computers. The emphasis of the course content is devoted to programming in the C++ language. The goal of this course is to prepare the student for AP Computer Science Java. There will be a focus on the Structured Programming style of programming and problem solving. Problem solving will be focused on problems and ideas from previous math courses. We will include in our study of the C++ language: statements, commands, input, output, variables, constants, standard data types, branching, indefinite loops, definite loops, functions, debugging, recursion, arrays (vectors), user defined types, searching, sorting, programming style, and graphics. These are the topics that the student should know by the end of the course.

Prerequisites: LCHS Math 1 Advanced with a grade of “C” or better, typing speed of 25 wpm or better, satisfactory score on math diagnostic tests, good written and communication skills, basic knowledge of computers, including Windows. If a student does not have any previous programming experience, it is recommended that they take Introduction to Computer Programming as preparation.

Attendance/Behavior/Citizenship expectations

INDIVIDUALLY, A STUDENT WILL:

- Not prevent the teacher from teaching nor disrupt the teaching process.
- Not prevent a student from learning nor disrupt the learning process.
- Not communicate with other students during a test or quiz until everyone has finished, and Mr. Clausen has announced that the last test or quiz has been turned in.
- Be respectful of others.
- Being on time is defined as being in your assigned seat before the bell starts to ring.
- Arrive to class on time (3 unexcused tardies per quarter will result in a citizenship grade of “N”, 4 or more unexcused tardies per quarter will result in a citizenship grade of “U”-see student handbook).
- Remain in your seat until the bell rings (Do not “line up” at the door unless instructed to do so).
- Not eat food, gum, candy, nor anything to drink are allowed in the room – see student handbook. Water in a container with a closed lid is okay.
- Attend class unless ill or on school-sponsored activity
- **Not copy someone else’s work or have their work in your possession.**

Electronic / Digital Device Policy (cell phones, ear buds, headphones, AirPods, Chromebooks, Laptops, Calculators, Smart Watches, etc.) For the Purpose of this Policy, the term “cell phone” refers to any privately-owned electronic device that has a screen, Wi-Fi, cellular, or Bluetooth capability, the ability to connect to a wireless network, take photographs, play music, videos, or games, downloadable apps, or to communicate with other devices. This also includes air pods and earbuds.

- **Prior to entering class, students must silence cell phones, take earbuds etc. out of your ears and place them in your backpack or purse. They must stay there until after the bell rings to end class AND you have exited the classroom.**
- **Prior to entering class, students must close Chromebooks/laptops and put them away (in backpack if possible). They must not be used until after the bell rings to end class AND you have exited the classroom.**
- **Calculators may not be used to play games, store or retrieve notes or textual data, or to communicate with other digital devices.**

- **During a test cell phones, Chromebooks/laptops, calculators, and smart watches must be stored in the teacher's specified location.**
- **Cell phone use in the bathroom or locker room is strictly prohibited. Cell phones must not accompany you to the restroom or your locker.**
- **Unauthorized use of a mobile/digital device will result in confiscation of the device, possible parent conference, student detention, and/or suspension. LCHS and/or your teacher is not responsible for damaged, lost or stolen items.**

Academic Honesty Policy

Your instructor will enforce the school's Academic Honesty Policy. To further clarify, it is considered cheating if a student looks at the computer program on another student's computer screen and types even a portion of their code or copies their code by any other means. It is also considered cheating if you tell another student what code to type, or type it for them. Computer programs are to be written in class only when your instructor or a substitute teacher is present, and are not to be copied by any means to any location other than your own "S" directory or the "T" directory on the school's servers.

Citizenship Grade

- O:** Makes positive contributions to the learning environment of the class or group.
ALWAYS has materials, book always covered.
No unexcused tardies per quarter
Always follows La Cañada High School Honor Code
- S:** Makes neither negative nor positive contributions to the learning environment of the class or group
Nearly always has materials, book always covered
One or two unexcused tardies per quarter
Always follows La Cañada High School Honor Code
- N:** Often makes negative contributions to the learning environment of the class or group
Often does not have materials, book often not covered.
Three unexcused tardies per quarter
Does not follow the La Cañada High School Honor Code.
- U:** Frequently makes negative contributions to the learning environment of the class or group
Frequently does not have materials, book seldom covered
Four or more unexcused tardies per quarter
One or more truancies per quarter
Does not follow the La Cañada High School Honor Code.

Discipline

Students needing correction will be given detentions as needed, parent phone calls, and/or referrals as necessary.

Grading Scale / policy

A+: 97 - 100	A: 93 - 96.9	A-: 90 - 92.9
B+: 87 - 89.9	B: 83 - 86.9	B-: 80 - 82.9
C+: 77 - 79.9	C: 73 - 76.9	C-: 70 - 72.9
D+: 67 - 69.9	D: 63 - 66.9	D-: 60 - 62.9
F: 0 - 59.9		

Grades are not weighted in this class. A student's grade is calculated as the number of points they have earned in the class divided by the total number of points possible. In this class, graded activities will include tests, computer programs, and homework which occur for every chapter/unit. Test dates will be posted on my school

web site. Tests are not dropped in this class. Grades are not rounded at the quarter or semester. If you have questions about your grade, please ask your teacher.

Homework

Homework will be used to enhance and reinforce student learning. **Homework is due 2 days before the test on the same chapter or when listed on my website. Late work will be accepted for half credit prior to the testing of that chapter or topic.** A list of all homework assignments for the school year can be found on my school web site listed above.

Materials to be brought to class

- Textbook (Fundamentals of C++ Understanding Programming and Problem Solving 1st Edition) covered with a paper book cover.
- Pencils, eraser, pen, notebook paper, graph paper.
- Three ring notebook in which you will keep all work and handouts
- Scientific calculator, (very helpful, but not required for this course)

Rules concerning late work including tests.

In the case of illness, the school handbook rule of “one day for every day absent plus one” will apply to turning in homework and making up tests and quizzes. **The definition of “day” above for this class will mean a calendar school day using only Mondays – Fridays (not including school holidays).**

Work turned in later than the number of days + 1 will be accepted ONLY at the discretion of the teacher, and will receive less credit than work turned in on time. **Tests and other work not made up in a timeframe consistent with the school handbook will receive a grade of zero.**

Assessment

Student assessment includes but is not limited to homework assignments and Chapter Tests. Each student is required to keep their assignments in a three ring binder / portfolio, which are periodically evaluated, and are kept by the student. Tests are given at the end of every Chapter or Unit. The instructor reviews these Chapter Tests with students during a class period after every student has completed or made up the test. A sample test is available on Mr. Clausen’s web site. Grades are calculated using the School’s designated Grade book program in order that students and their parents may look up their grades on the Internet.

Office Hours / Communication

Before school 7:45 – 8:30 a.m. by appointment, during homeroom / SSR / STEP, or Tuesday at lunch in room 607. Grades will be entered into the school’s gradebook program in a timely manner after the completion of student assessments. Emails will receive a reply within three business days when I’m at work. My website for this course (listed at the top of page 1) contains important information organized over a few web pages including a class calendar, a list of homework assignments for the entire course, and lecture notes for the entire year.

Restroom Sign Out

When a student needs to use the restroom during class time, they must sign out legibly on a form on Mr. Clausen’s desk. Cellphones and other electronic devices are not to be taken with you according to school policy. Whenever possible, only one student should leave the classroom at a time. Students need to take the classroom pass with them.

Study tips

Take notes in class.

Keep a list of daily assignments.

If absent check the website for the handout / assignment, computer program description, and read through the lecture notes for the lesson you missed.

Do all assignments as soon as possible, finishing them the day assigned for homework.

Spend at least 45 minutes daily on homework.

If absent, get the make up work done in a timely manner. This is your responsibility.

Get help when difficulty first arises - don’t wait until it is too late.

Because this is a Computer class, there is an additional list of Computer Lab Guidelines for students to follow in addition to the LCUSD Internet Use Agreement. (See attached list: Computer Lab Guidelines)

Academic Integrity

All work handed in under your name must be unique. You should never have anyone else's work in your possession for any reason. Claiming work as your own that is not the product of your own original thought or work will be considered as a violation of the school's Honor Code.
