

CSE 001 BREADTH OF COMPUTING

Fall 2017 • Section 010 • Professor Daniel Lopresti
2:35 pm – 3:50 pm TuTh • PL 360 (with labs in PL 122)

Syllabus

Description

This course provides an introduction to the field of computer science. CSE 001 is intended to introduce a breadth of topics from the computer science curriculum. Students will develop a high level understanding of the operation of computer hardware, software, networks, and systems. Topics will include introductions to designing websites, writing computer programs, computer architecture, operating systems, computer networks, databases, security, privacy, and social, ethical, and professional issues. We will also study the history of computing.

In addition to a breadth of topics from the computer science curriculum, this course provides first steps toward the development of programming skills using JavaScript and HTML.

The course is intended for students who plan to take further courses in Computer Science (i.e., CSE 002, which can be taken concurrently, and CSE 017, the next course in the computer science sequence), and for those who want to gain understanding about the breadth of computer science topics as part of a general education. No prior experience with computer programming is assumed. There are no prerequisites. This course is not open to students who have credit for CSE 012, CSE 015 or ENGR 097 (now ENGR 010).

Instructor

Professor Daniel Lopresti

Email dal9@lehigh.edu ~ Ext 85782

Office Hours 2:00 pm – 4:00 pm on Wednesdays (or by appointment) in Packard Lab 350

Teaching Assistant

Nathan Kern

Email nak317@lehigh.edu

Office Hours 5:00 pm – 6:00 pm on Thursdays and 1:30 pm – 2:30 pm on Fridays

Graders

Role	Name	Email	Office Hours
Grader	Sarah Botwinick	scb219@lehigh.edu	12:30 pm – 1:30 pm W
Grader	Jacob Nelson	jjn217@lehigh.edu	5:00 pm – 6:00 pm W
Grader, Lab Assistant	Conor O'Grady	cmo220@lehigh.edu	2:30 pm – 3:30pm F
Grader, Lab Assistant	Esther Pak	emp518@lehigh.edu	12:00 noon – 1:00 pm Tu

TA and Grader office hours are held in the SunLab, PL 122.

Texts

Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy, and Security by Brian Kernighan, Princeton University Press

Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics by Jennifer Niederst Robbins, O'Reilly Media

The Innovators: How a Group of Hackers, Geniuses, and Geeks Created the Digital Revolution by Walter Isaacson, Simon & Schuster

CourseSite

Course materials and discussion forums will be available @ <http://coursesite.lehigh.edu/>

Grading	● Participation (in-class and online)	5%
	● Homework assignments (7)	15%
	● Lab assignments (7)	15%
	● JavaScript programming assignment	10%
	● In-class quizzes (3)	30%
	● Take-home final exam	25%

Homework Policy All aspects of homework assignments will be handled via CourseSite. The following is our due date policy:

- No late penalty if submitted by 11:00 PM on the due date.
- Homework submitted after this deadline but less than 24 hours late will lose 10 points.
- Homework submitted more than 24 hours but less than 48 hours late will lose 20 points.
- Homework submitted later than this will not be graded and will receive a zero.

This strict policy enables the course to be fair to all students, and for homework to be returned early enough for you to use the feedback to prepare for exams. No exceptions will be made.

CourseSite enforces strict deadlines, so please verify that your work has actually been uploaded (forgetting to click “Submit” is a frequent error). Failure to upload successfully is not a valid excuse for late work. HTML/JavaScript programs may be written on any computer, but will be evaluated using the Firefox 30.0 (or newer) browser. Work can be done using any computer system, including Macs, PCs running Windows, PCs running Linux, and the machines in our lab (which run Linux).

Students are advised to back up their files to the university-supported H drive, a USB drive, cloud service, and/or an external hard disk on a regular basis. Because the H drive is easily accessible as a backup, failure of one’s personal machine is not an acceptable excuse for late work. There are numerous university and departmental labs available to you as an alternative if your personal machine should fail.

Labs Labs will be held in the SunLab (PL 122). I will announce lab days ahead of time. There will be graders and the instructor to help you during lab. Lab submissions will be due by 10:00 am on the morning following the lab.

Quizzes and Final Exam There will be three in-class quizzes and a comprehensive take-home final exam. They will be based on the material covered in lectures, labs, and the assigned readings. Makeups will be considered only for extreme circumstances. Any make-up requests will be handled on a case-by-case basis, with no guarantees, and will require evidence of your hardship.

Collaboration Policy All homework and programming assignments, unless explicitly stated in the problem definition, are to be an individual effort. You are encouraged to discuss assignments with one another, your friends, and with the instructor and graders for the course. Indeed, this may be the most effective method of learning. You may share concepts, approaches, and strategies for producing a solution. However, all work submitted in your name must be your own. You may not copy code in whole or in part from another student or from a website. Violations will be considered as cases of academic dishonesty and referred to the University Committee on Discipline. If you are found guilty, you may be given the failing grade WF in the course. For examples of what is and is not okay, refer to the “Improper Collaboration Policy” statement at <http://www.cse.lehigh.edu/~brian/course/2013/cunix/cheating.html>. If any aspect of this policy is not clear to you, do not make assumptions; consult with the instructor.

Students with Disabilities If you have a disability for which you are or may be requesting accommodations, please contact both your instructor and the Office of Academic Support Services, Williams Hall, Suite 301 (610-758-4152) as early as possible in the semester. You must have documentation from the Academic Support Services office before accommodations can be granted.

Principles of Our Equitable Community Lehigh University endorses The Principles of Our Equitable Community. We expect each member of this class to acknowledge and practice these Principles. Respect for each other and for differing viewpoints is a vital component of the learning environment inside and outside the classroom.