

CSCE 210: Computer Hardware Foundations Fall 2020

Section 002: Asynchronous Online (via Blackboard)

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	Teaching Assistant: N/A
	Office Hours: TTh 11:30 am – 12:30 pm or by appointment via email or MS Teams

Course Syllabus

Catalog Description

Number representation, data formats, CPU and memory organization, assembly language, I/O and peripherals, computer networks.

Course Outcomes

1. Describe the major storage formats for data
2. Represent integers, floating point numbers, and character data
3. Describe the major components of a computer system and state their functions and purpose
4. Demonstrate the ability to program in assembly language
5. Explain the fundamental concepts and implementation options for input and output

All learning outcomes in this Distributed Learning course are equivalent to face-to-face (F2F) version of this course.

Prerequisites

CSCE 145, 204, 205, 206, or 207

Required Textbook

The required textbook for this course is:

- **The Architecture of Computer Hardware, Systems Software, & Networking: An Information Technology Approach, 5th Edition**, by Irv Englander (January 2014)
Publisher: Wiley (ISBN: 978-1-118-32263-5) (Paperback)

You may find this book at the Official USC Campus Bookstore or at on-line retailers such as **Amazon.com** or **BarnesandNoble.com**. You may also consider purchasing the textbook as an e-textbook from Amazon.com or from the publisher's website: <http://www.wiley.com/WileyCDA/WileyTitle/productCd-EHEP002899.html>

All readings/materials comply with copyright and fair use policies.

Required Software

In order to access course materials and complete the course assignments you must have access to:

- A personal computer (PC) or laptop with the **Microsoft Office Suite** (Word, Excel, PowerPoint).
- The Internet (for using email, browsing the web, accessing the course website, and submitting assignments).

Course Format

This course will be delivered **asynchronously through Blackboard**.

- Student-to-Instructor (S2I) Interaction: Students will listen/view lectures online via videos and interact with the professor through email, MS Teams or Blackboard Collaborate Ultra, and (possibly) discussion boards. The professor will post regular announcements, provide individual feedback to students, and hold online office hours via MS Teams or Blackboard Collaborate Ultra.
- Students-to-Student (S2S) Interaction: Students will engage in discussions through email, the discussion board, and MS Teams or Blackboard Collaborate Ultra.
- Student-to-Content (S2C) Interaction: Students will engage with course content by completing assignments and participating in discussion boards and video conference meetings.

The instructor will reply to all feedback in a reasonable amount of time; the same is expected of the students. Specifically,

- Communication: Responses to email communication and questions will be provided within 24 hours.
- Test Grading: Grades for tests will be returned within 1 week of due date.

Time Commitment and Planning

Any university course requires a large amount of work outside of lecture. I assume that when you register for this course you will allocate an average of at least 8-10 hours per week, in addition to asynchronous lectures, to study the textbook, complete the homework assignments, and prepare for tests. It is your responsibility to manage your workload. If you procrastinate starting your assignments, you may find that you do not have enough time to complete the assignments, or that a technology problem may prevent you from completing your assignment. Note that not being able to access a computer or network will not be considered an acceptable excuse for submitting your assignment late.

Assessments

Your overall final course letter grade will be determined by your grades on the following assessments.

Tests	1000 points
• Test 1	250 points
• Test 2	250 points
• Test 3	250 points
• Final Exam	250 points
Total	1000 points

Your final grade is based on the total points you have earned over the semester. Therefore, individual assignments are not curved, and all points for all assignments are weighted equally. Letter grades will be assigned as follows:

- A = [900-1000]
- B+ = [870-899]
- B = [800-869]
- C+ = [770-799]
- C = [700-769]
- D+ = [670-699]
- D = [600-669]
- F = [0-599]

If everyone performs very well, I do not have a problem with assigning everyone A's. However, poor performance (particularly failure to turn in assignments on time) will result in a low grade.

Important Note Regarding Grade Appeals

My teaching assistant or I will grade all assignments. If you have a question about a grade you have received, or you believe that you were graded incorrectly, please see me during **office hours** or set up an online appointment. If you wish to appeal an assignment grade you must do so within one (1) week of my posting the grade to Blackboard. If you want to make a case for re-grading your work based on another student's grade on the same assignment, I will review and then re-grade your work as well as the other student's work entirely from scratch.

Summary of Assessments

- **Homework Assignments (not graded!)**: You will be required to complete, **but not turn in for a grade**, eight (8) Homework Assignments (HWs) that will emphasize both the quantitative and qualitative aspects of the course material and provide you with feedback on how well you are mastering the material. These HWs may be completed individually or in teams of students. Solutions to the HWs will be made available to you via the course website; however, you should make a good faith effort to solve the HW questions correctly before reviewing the solutions. Again, you will **not** turn in the HWs for a grade. However, I reserve the right to collect the assignments in the future if I think things are going poorly.
- **Activities (not graded!)**: You will be required to complete, **but not turn in for a grade** six (6) Activities during the semester. The Activities may be completed individually or in small teams of students. Solutions to the Activities will be made available to you via the course website; however, you should make a good faith effort to solve the Activity questions correctly before reviewing the solutions. Again, you will **not** turn in the Activities for a grade. However, I reserve the right to collect the assignments in the future if I think things are going poorly.
- **Tests**: There will be three (3) Tests during the semester and a Final Exam at the end of the semester. All tests will be completed remotely and submitted online. All Tests must be completed individually. Each Test may include multiple-choice, fill-in-the-blank, short answer, and essay questions taken largely from the textbook and in-class discussions. More details about the logistics of test-taking will be discussed in class.

Missing a Test: Test dates are noted on the Course Schedule. You could miss a Test for three reasons. Here are the policies for each:

1. You have a scheduled conflict that you can identify by the second week of classes. For example, you may have a Dean's Excuse for official University athletic team and school-sponsored organizations. In this case, you will be allowed to take the Test **early** and **only if** you tell me by the end of the second week of class.
2. An emergency comes up before the Test. For example, a family emergency that prevents you from taking the Test. In this case, you may take the Test at another time **only if**
 - a. You discuss the problem with me or at least email me **before** the Test **AND**
 - b. You have **written documentation** that the emergency occurred. Written documentation may include an Athletic Department Excused Absence memo, note on letterhead paper from a physician, hospital discharge paperwork, family member obituary notice, etc. The written documentation must include the phone number of someone who can verify the emergency. We will set the make-up time very soon after the regular Test time, and you will likely get a different Test.
3. You sleep through the Test, you do not contact me before the Test, or you cannot provide satisfactory proof of one of the above reasons. In this case, you will receive a zero on the Test.

Request for Accommodations

The University of South Carolina is committed to providing access to programs and services for qualified students with disabilities. If you are a student with a disability and require accommodation to participate and complete requirements for this class, notify me immediately and contact the Student Disability Resource Center (<http://www.sa.sc.edu/sds>, 1523 Greene Street, LeConte College Room 112A, 803-777-6142,

sasds@mailbox.sc.edu) for verification of eligibility and determination of specific accommodations. In addition, please provide me the required accommodation letter from the Student Disability Resource Center. *All course materials are available in alternative format upon request.*

Academic Integrity

University policies and procedures regarding academic integrity are defined in policy STAF 6.25, Academic Responsibility - The Honor Code (see <http://www.sc.edu/policies/ppm/staf625.pdf>). Prohibited behaviors include plagiarism, cheating, falsification, and complicity. All potential Honor Code violations will be reported to the Office of Student Conduct and Academic Integrity, which has the authority to implement non-academic penalties as described in STAF 6.25. Academic penalties for Honor Code violations in this course range from a zero on the assignment to failure of the course.

In reference to this course, students are expected to do their own work when assignments require individual work. For example, students may not copy the work of others, either manually or electronically, under these conditions. Further, students who allow their work to be copied by others risk violation of the University Honor Code. If situations arise in which the application of the University Honor Code is unclear, students should seek the interpretation of the instructor.

The faculty takes violations of the University Honor Code (<http://www.sc.edu/policies/ppm/staf625.pdf>) seriously. Students are encouraged to review the Honor Code and to understand the consequences of any action that is proven to be a violation of the code.

Remember that the first tenet of the Carolinian Creed is, "I will practice personal and academic integrity."