University of South Carolina

CSCE 145: Algorithmic Design I

SYLLABUS

INSTRUCTOR

Name: Neema Kanapala

Office: 2219, Bert Storey Innovation Center

Office Hours: TR 11:30 am – 1:00 pm or by appointment

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ACADEMIC BULLETIN DESCRIPTION:

- Problem-solving, algorithmic design, and programming

- Carolina Core: ARP

CLASS MEETING TIMES:

Session	Days	Time	Location
Lecture	MW	1:10 pm – 2:00 pm	SWGN 2A31
Lab:			
Section-026	MW	4:00 pm – 5:40 pm	Coliseum 3012
Section-027	TR	2:00 pm – 3:40 pm	Coliseum 3012

COURSE OVERVIEW:

- The course will be delivered to the students face-to-face only.

- Student-to-Instructor(S2I) Interaction:

  ○ Lecture Session:

    ▪ Students will interact with the instructor through face-to-face sessions during class meeting

times in the assigned classroom.

- ○ Lab Session:

    - Labs are meant to provide one-one help for the assigned lab and/or answer any questions regarding course content.

    - Labs may be completed at your own pace.

    - You will have access to teaching assitant(s) during your lab section's meeting times in the assigned lab room.

- ○ Students will interact with the instructor during lecture sessions, office hours and also through email.

- Student-to-Student(S2S) Interaction:

  - ○ Students may engage in discussions during class session.

- Student-to-Content(S2C) Interaction:

  - ○ Students will engage with the course content by completing assignments, tests and other in-class participation activities.

- The instructor and the teaching assistant will respond to student queries in a reasonable amount of time; the same is expected of the students.

  - ○ Communication: Please allow a response time of at least 1 business day to your email. Make sure to include "*CSCE 145*" as the subject line in all your email communication.

  - ○ Grading: Grades for assignments will be returned within 1 week of the due date.

COURSE OBJECTIVES

1. Solve problems using a computer

2. Read and design algorithms

3. Design data structures

4. Demonstrate the ability to use a software development environment to construct, execute, test, and debug software.

5. Demonstrate the ability to program a computer in a high-level language.

PREREQUISITES

- MATH 111 or MATH 115

- No prior programming experience is assumed, but you should already have some experience using a computer.

TEXTBOOK

- Walter Savitch, *Java: An Introduction to Problem Solving and Programming (8th Edition)*, Prentice Hall, 2018, ISBN-13: 9780134462035

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

EDITORS

- You may download and install any one of the following integrated development environment(IDE) to write your Java programs:

  ○ Eclipse   https://www.eclipse.org/downloads/

  ○ Dr. Java   http://www.drjava.org/

  ○ IntelliJ IDEA   https://www.jetbrains.com/idea/

- You may also download and install the latest Java Development Kit(JDK) from:

  ○ https://www.oracle.com/java/technologies/javase-downloads.html

GRADES:

A (90-100%)

B+ (87-89%)

B (80-86%)

C+ (77-79%)

C (70-76%)

D+ (67-69%)

D (60-66%)

F   (0-59%)

GRADE DISTRIBUTION:

Lab Assignments – 25%

Lab Reports – 15%

Homework – 20%

Test-1 – 20%

Test-2 – 20%

Lab Assignments

- Laboratories meet to walk through an implementation of the principles that have been presented in lecture.
- Laboratory assignments will consist of short programs written in Java.
- You are expected to work on lab assignments individually.
- A due time will accompany each lab assignment.
- Labs may be completed at your own pace. However, you will have access to a TA during lab meeting times to guide you through the completion of the assigned lab and/or answer questions related to course content.

Lab Reports

- Lab Report questions will be available at the end of each lab assignment.

- You are expected to work on lab reports individually.

- A due time will accompany each lab report.

- Use the Lab Report Template. (see BB >> Course Content)

Homework

- Homework assignments consist of programs written in Java.

- A due time will accompany each homework.

- You are expected to work on the homework independently while peer discussion is encouraged.

Tests

- All tests are closed to books and notes.

- If you miss either Test-1 or Test-2, you will be allowed to take the make-up exam.

  ○ You are required to submit proper documentation to be allowed to take the make-up exam.

  ○ The make-up exam is comprehensive but optional.

Tests	Tentative Dates
Test-1	Monday, 10/04/2021
Test-2	Monday, 11/15/2021

ASSIGNMENT SUBMISSION:

- All materials including assignments for the course will be posted on Blackboard (https://blackboard.sc.edu)

- We do not accept late work in this course.

- Assignments are made available to everyone at the same time and are due at the same time. No credit will be given for late assignments.

- Exceptions to the late policy may be made on an emergency basis.

- Do NOT email your homework/lab. All emailed homework/lab is considered as NOT submitted.

- All assignments must be turned in via Blackboard only.

- It is your responsibility to check that the correct grade is uploaded on Blackboard. If you find a discrepancy, email me immediately.

GRADE APPEALS:

- Grade appeals for any assessment must be requested via email within 1 week of my posting the assignment grade to Blackboard.

- While I will always answer your questions on the grading of an assessment, your score on the assignment will not be changed unless you request a grade review during the 1-week grade appeal time period.

- 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.

COVID-19 Safety Guidelines:

- Face coverings protect you and your classmates in case that the wearer is unknowingly infected but does not have symptoms.
  - All students are required to wear face masks/coverings for the duration of the lecture session.
  - Face coverings should cover your nose and mouth in a community setting.
  - In alignment with the tenets of the Carolinian Creed – including integrity, honesty, and respect for others – and in an effort to keep our campus safe, faculty, staff, and students are required to wear a face mask in campus buildings.

- USC strongly encourages Covid-19 vaccination. Please see UofSC's Garnet and Vaxxed campaign

for more details.

- The University Health Services pursues contact tracing as part of our OSHA requirement to do a reasonable and good faith inquiry to determine workplace transmission and to limit the spread on campus and to the community.

  ○ To enable contact tracing, University Health Services requires classroom seating to be assigned.

  ○ In case you need any accommodations for seating, please contact your instructor immediately.

- In case you need to disinfect any surfaces, you may use the cleaning supplies available at the front of the classroom.

- If you have been diagnosed with COVID-19 or have been exposed and require quarantining, you should complete the [COVID-19 Student Report Form](#)

- In case you have questions about whether you should quarantine or believe that you have been in close contact with an infected individual, please reach out to the COVID Phone Bank (803-576-8511)

ATTENDANCE:

- Class attendance is required as claimed in University policy and a student is responsible for all the material covered in the course.

- Attendance is required for all classes, unless special permission is given by the instructor.

- Not knowing changes to class policy/homework/etc. is NOT an acceptable reason for non-compliance.

- You are expected to attend all class sessions and attendance will be recorded.

- If you expect to miss class for any reason you should contact the instructor by email as soon as possible.

- You are responsible for all material covered in lectures whether you are present or not.

- If you don't ask questions, then I will assume that you understand the material.

- If there is a topic you do not understand, it is your responsibility to seek clarification from me during lectures or during office hours, or from other students.

- If you miss a lecture, it is your responsibility to get notes and announcements from a classmate.

- Missed tests can be made up only with a medical excuse(with proper documentation).

CODE OF CONDUCT & ACADEMIC INTEGRITY

- Students are expected to follow the [Code of Student Academic Responsibility](#).

- All assignments and examinations are expected to be the sole effort of the student submitting the work.

- Lectures and course materials (which is inclusive of my presentations, tests, exams, outlines, and lecture notes) are protected by United States Copyright Law.

  - You are encouraged to take notes and utilize course materials for your own educational purpose. However, you are not to reproduce or distribute this content without my expressed written permission. This includes sharing course materials to online social study sites like CourseHero and other services.

  - Students who publicly reproduce, distribute or modify course content may be in violation of the University's Honor Code's Complicity policy, which states: sharing academic work with another student (either in person or electronically) without the permission of the instructor is in violation of the honor code.

- Some examples of Honor code violations are:

  - Uploading exam content and/or lecture recordings/materials to social study sites

  - Uploading class assignments to social study sites

  - Using GroupMe to post exam information or answers to any graded classroom assignments.

- Prohibited behaviors also include plagiarism, cheating, falsification, and complicity.

- All potential Honor Code violations will be reported to the Office of Student Conduct and Academic Integrity

- Academic penalties for Honor Code violations: For the first offense, the student will receive a grade of 0 for the assignment and be reduced by one full letter grade. Multiple offenses result in a grade of F for the course in addition to whatever disciplinary sanctions are applied.

- Do NOT cheat. Plagiarism will not be tolerated.

- As a member of the Carolina community, you are obligated to the Carolinian Creed.

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 Office of Student Disability Services (http://www.sa.sc.edu/sds, 1705 College Street, Close-Hipp, Suite 102, 803-777-6142, sadrc@mailbox.sc.edu) for verification of eligibility and determination of specific accommodations.

- In addition, please provide me the required accommodation letter from the Office of Student Disability Services.

SUPPLEMENTAL INSTRUCTION:

- Student Success Center (SSC) to assist you in better understanding course material and to aid you on your path to success.

- Resources available to students in this course include: Peer Tutoring, Supplemental Instruction (SI), and Peer Success Consultations.

- Sessions are open to all students who want to improve their understanding of the material, as well as their grades.

- SI sessions will focus on the most recent material covered in class.

- SSC services are offered to all UofSC undergraduates at no additional cost.

- You may contact SSC by phone: (803) 777-1000 or visit their website: www.sc.edu/success or visit the SSC in the Thomas Cooper Library (Mezzanine Level) to check schedules and make appointments.