CPSC 1010 Sections 100 & 200
Computer Science I
Fall 2019

Instructor
Professor Roger L. Van Scoy
Office: 226A McAdams
Email: vanscoy@clemson.edu
Office hours: Monday 1pm-3pm & Tuesday, 8am-10am and by appointment (please send an email)

Class Meeting Times (Sections 100)
Lecture: MWF, 8:00am-8:50am, McAdams 114
Laboratory, Tuesdays & Thursdays. You are required to attend a lab section (CPSC 1011) for the course.
Final Exam: Thursday, 12/12/2019, 11:30-am-2pm, McAdams 114

Class Meeting Times (Sections 200)
Lecture: MWF, 9:05am-9:55am, McAdams 114
Laboratory, Tuesdays & Thursdays. You are required to attend a lab section (CPSC 1011) for the course.
Final Exam: Friday, 12/13/2019, 8:00am-10:30am, McAdams 114

Attendance Policy
Attendance during lectures and lab sessions is mandatory (unless explicitly excused by the instructor or lab TA). Attendance will be taken randomly in this class and in lab. If you miss a class, check the announcements in Canvas and your classmates about missed material. You do not need to notify the instructor in advance of a planned absence, except in cases of extreme or emergency circumstances that will result in you missing more than one week of classes. Excessive missed classes will impact your final grade.

Communication
We will use Canvas (http://www.clemson.edu/canvas/) for exams, assignments and announcements. There will be a weekly announcement outlining the assignments and readings due that week. The course schedule will be conveyed via Canvas.

We will be using Piazza (https://piazza.com/) for all non-grade related questions about ZyBook assignments, Mimir programming assignments, and Labs. You are encouraged to respond and offer guidance to your classmates, but do not post answers! All class related grade questions should be emailed directly to the instructor. The signup page for the class Piazza board is:

https://piazza.com/clemson/fall2019/cpsc10101011

It is your responsibility to check Canvas, Piazza, and your Clemson email at least once a day.

All email to instructors and TAs must come from your Clemson email address. Please allow 24 hours for instructor and TAs to respond to your email on weekdays, and 48 hours on weekends/breaks.

Neither the instructor or the TAs will not correspond with your parents or guardians about your grades.

Class Cancellation

Students are expected to wait for 15 minutes after the beginning of a lecture before leaving if the instructor is late and no announcement has been posted to Canvas or Piazza.

Academic Continuity Plan

Clemson has developed an academic continuity plan for academic operations. Should University administration officially determine that the physical classroom facility is not available, class will be conducted in a virtual (online) format. The University issues official disruption notifications through email/ www/ test notification / social media. When notified, use one of the following links to navigate for Clemson Canvas, where you will find important information about how we will conduct class:

- Primary access link: www.clemson.edu/canvas (or the Canvas student app)
- Secondary access link, if needed: https://clemson.instructure.com/
- Also check Piazza for any instructor announcements

Our activities for teaching and learning will occur through our Canvas course. On E-Learning Day, August 29, 2019, a real-time test of the academic continuity plan will be conducted. Since our class does not meet on that day, there will be changes to the course plan.

Course Description

This is a 4-credit hour course.

The course is an introduction to problem solving and programming methods. Emphasis is placed on algorithm development in C and includes use of the appropriate tools. This is one of two normal entry-level courses for Computer Information Systems and Computer Science majors.

This class is appropriate for undergraduate students who desire to learn how to write computer programs in a Linux or UNIX environment. No prior programming experience is required.

Topical Outline

- Unix/Linux Environment
- Introduction to C
- Variables and Assignments
- Branching and Decision Making
- Repetition and Loops
- Arrays
- Functions
- Structures, Pointers and Abstract Data Types
- Terminal and File I/O
- Recursion
- Searching and Sorting
- Special topics

Prerequisites
CMPT score of 60 or higher; or CPSC 1040 and programming experience.

Learning Outcomes
At the end of the semester, students who successfully complete CPSC 1010 will be able to:
1. Apply knowledge of compiling, running, testing, and debugging C programs in a UNIX/Linux environment
2. Design and implement computer programs to solve problems that use variables, operators, expressions, decision statements, and/or operators.
3. Write the output of a program by tracing through its source code.
4. Discuss current or historical issues in computing and how they relate to society.

Grading Information

Number & Type of Assessment	Points per Assessment	Total Points
zyBook Participation & Challenge Activities	2-5	85
Mimir In Class Programming Assignments	5-20	75
Mimir Programming Assignments	5-20	140
Midterm Exams (2)	50	100
Final Exam (1)	100	100
Labs (13)		100
Total Points		**600**

Letter grades are assigned according to the standard 10% scale (i.e. A: 90%-100%, B: 80%-89%, C: 70%-79%, D: 60%-69%, F: 0%-59%). All exams and quizzes are closed book (no book, no internet, or other resources allowed) unless otherwise indicated at the time of the assessment. These point totals may be changed during the semester. Extra credit opportunities may arise throughout the semester. **No** extra credit opportunities will be offered after the last day of classes.

Labs
The Lab component generally tracks the content of the lecture portion; however, the labs may introduce new material and require you to apply the material in new ways. The labs are also about collaborating and getting to know your fellow students, so for many of the labs you will be working with a partner on Tuesday and completing the lab on Thursday. Attendance on both days is **REQUIRED**, unless you explicitly talk to the Lab Instructor on Tuesday and show that your lab is complete and submitted. While the labs are a small part of the overall class grade, you MUST pass your lab section to pass the course.

Materials

The required text for the course is: **Programming in C, by ZyBooks**.

To purchase the book, you will need to do the following:

1. Using your NAME@clemson.edu email,
   sign in or create an account at: learn.zybooks.com
2. Enter zyBook code: CLEMSONCPSC1010VanScoyFall2019
3. Subscribe

Supplemental Material

Additional reading material will be assigned throughout the course. This material will be drawn from books available via Safari Books Online (https://libraries.clemson.edu/news/2018/10/02/safari-books-online/). As a student at Clemson, you can access the Safari Books Online content free of charge using your Clemson email address. You will need to use the link above and create your Safari account.

Programming Assignments

Programing assignments for the lecture portion of the course will be completed and turned in using Mimir. Mimir will give you immediate feedback on your programs; however, you will only be allowed a fixed number of submission so you will need to test your programs before submitting them to Mimir. The link and instructions for accessing Mimir is available in Canvas.

Exams

All exams and quizzes are closed book (no book, no internet, or other resources allowed) unless otherwise indicated at the time of the assessment.

Students may request to take an exam prior to the examination date. This request must be made at least one week prior to the scheduled examination date via email. Students who do not make such a request and are not in attendance on the examination date have an opportunity to take a revised version makeup exam at a different time only under exceptional circumstances, such as family or medical emergencies. Final examination conflicts must be resolved by the mid-semester point.

Homework and Programming Assignments

Each assignment will include deadline, formatting and submission instructions. Late work will **not** be accepted for credit, however, submitting all assignments will work in your favor in cases of borderline grades.

Laptop Usage

Please bring your laptop to class and lab, we may not use your laptop every class, but you will need it for quizzes, exams, and programming exercises. You will use your laptop every lab.

There are rules with regards to electronics in class that you are required to observe not only as a courtesy to your classmates but also to assure that you have the best opportunity for a positive learning experience:

- Laptop and phone speakers and alarms must be set to mute or off before coming to class.
- All social media sites, games, etc. must be turned off during class. If you engage in unauthorized communication or entertainment during class (e.g. surfing the web, instant messaging, playing games, etc.), you will be asked to close your laptop. These activities not only distract yourself, but also people seated near you. If such activities occur during an exam or quiz, it constitutes academic dishonesty (see below).

- The use of headphones is prohibited during class.

Mobile Devices
Please silence your devices before class. Do not text or play games during class.

Recording Devices
Lectures may not be recorded without the written permission of the instructor, and you do not have the instructor's permission to use notes from the lectures for commercial lecture note purposes.

Re-grade Requests
You may request a re-grade of any graded material. Email your request, including detailed information about the request along with the material itself (scanned in, if needed). Regrade requests are due within one week after the instructor returns the graded material, regardless of whether the student is in class. For regrade requests, the instructor will completely regrade the assignment; please be aware that a regrade request might result in a lower overall grade.

Inclement Weather Policy
In case a scheduled class meeting is cancelled due to inclement weather, any assignments due or examinations scheduled for that day will move to the next regularly scheduled class meeting, unless otherwise announced by the instructor on Piazza.com.

Academic Integrity Statement
As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning." Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Accessibility Statement
Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the professor know and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing studentaccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged - drop-ins will be seen if possible, but there could be a significant wait due to scheduled appointments. Students who receive Academic Access Letters are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student's responsibility to follow this process each semester. You can access further information here: http://www.clemson.edu/campus-life/campus-services/sds/.

Title IX (Sexual Harassment) Statement
The Clemson University Title IX (Sexual Harassment) statement must be included: Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This policy is located at

http://www.clemson.edu/campus-life/campus-services/access/title-ix/ . Ms. Alesia Smith is the Clemson University Title IX Coordinator, and the Executive Director of Equity Compliance. Her office is located at 110 Holtzendorff Hall, 864.656.3181 (voice) or 864.656.0899 (TDD).

Changes
Lecture topics and assignments are subject to change. The course syllabus is a general plan for the course; deviations to the class may be necessary and will be announced to class by the instructor.