

# CSC 130 Introduction to Computer Science

## Fall 2021

- Instructor:** Professor Christine Kikuchi
- Office hours:** Appointments are required for office hours. Appointments can be made for phone call or Zoom meetings. To make an appointment, just email me.
- Email:** [cmkikuch@uncg.edu](mailto:cmkikuch@uncg.edu)
- Prerequisite:** Grade of at least C (2.0) in MAT 120, MAT 150, MAT 151, or MAT 191.
- Credit hours:** 3 credits
- Semester dates:** Tuesday, August 17, to Wednesday, December 1. The final exam will be taken on Wednesday, December 1.

### Meeting Times and Location

This class will be conducted as a partially asynchronous online class. Class sessions, tests, and programming assignments will be conducted online using Canvas. Each week there will be assigned readings in Revel, along with associated quizzes and programming assignments.

Labs will be held synchronously via Zoom at the scheduled time periods shown below. Students will access Zoom via Canvas. Coming to the lab sessions is optional, but students who do chose to come to the lab can get help from the teacher and the lab assistants.

#### Lab Sessions

Sec. 1: **Mondays, 1:00 pm - 2:50 pm**

Sec. 2: **Mondays, 3:30 pm - 5:20 pm**

Sec. 3: **Wednesdays, 1:00 pm - 2:50 pm**

Sec. 4: **Wednesdays, 3:30 pm - 5:20 pm**

### Course Description:

Programming in a high-level language. Emphasis on problem analysis, problem-solving techniques, and software design principles and techniques.

### Course Introduction:

This course is planned for undergraduate students in the Computer Science major and for those whose current major requires an introductory-level computer programming course.

Many of the benefits of this course are derived from practicing the learning techniques with others. Good learning, like good work, is collaborative and social; learning is not competitive, and learning is not achieved in isolation. By sharing your ideas with others, and responding to their reactions, not only will your thinking skills be sharpened, but your understanding of the subject deepened as well.

## **Course Goals/Objectives**

After completing this course, you should be able to:

- Demonstrate a mastery of elementary fundamental algorithms and abstraction
- Demonstrate an understanding of the JAVA programming language, including analyzing problems, designing solutions, implementing basic JAVA syntax, demonstrating use of top-down programming, assignment statements, decision structures, looping structures, object-oriented techniques, functions, and arrays
- Program in a team (partnered) environment

**The topics that will be covered during the course of the semester include:**

1. Introduction to Computers and Java
2. Java Fundamentals
3. Decision Structures
4. Loops and Files
5. Methods
6. A First Look at Classes
7. Arrays
8. Objects and Classes (time permitting)

### **Email Note:**

When you email me, please use the subject line of **CSC 130, sec. #**. Sign your email, using your first and last name. Please use only your UNCG email.

## Course Materials:

**Students must have a computer and Internet access to take this course.**

REVEL-Access card

Pearson, 2020

9780135945476

Once you have REVEL access, you may reach the course material electronically.

**DO NOT PURCHASE THE PHYSICAL BOOK.**

### Notes:

- You simply need to purchase the access card for online access. Once you have REVEL access, you may reach the course material electronically. This will include the e-book: Liang, Y. & Liang, Y. Daniel, *Revel for Introduction to Java Programming and Data Structures*.
- Do not purchase this text elsewhere as you will need the Revel access.
- To enhance your learning experience and provide affordable access to the right course materials, this course is part of an inclusive access model called First Day. You can easily access the required materials for this course at a discounted price and benefit from single sign-on access with no codes required in Canvas. To access your materials, login to Canvas, click on your course, and click into your course materials. Accept the license agreement/privacy policy if prompted.
- The UNCG Cashier's Office will bill you at the discounted price as a course charge for this course.
- It is NOT recommended that you Opt-Out as these materials are required to complete the course., Students have the option to opt out (and back in) as many times as they like until August 27, but you will be responsible for purchasing your course materials at the full retail price and access to your materials may be suspended. You will opt in and out using the Course Materials link in Canvas. For more information and FAQs, go to <https://bookstore.uncg.edu/first-day/>.
- Buyer Beware:
  - If you decide to not be part of The First Day program, you will need to purchase course materials separately. However, please note that the cost will likely be more expensive.
  - Codes purchased from any third-party vendor are likely not to work. Many of the codes sold on Amazon Marketplace and similar are defective or already activated. This may cause you a delayed start to the semester.
  - Note that materials purchased outside of the Access Program and/or directly online from third party sites may not grant the access to the correct course materials and neither the bookstore nor Pearson can resolve any issues that may arise.
- **Software:** This class will use the Java programming language, **version JDK 8u111**. This is a free program. An IDE (integrated development environment) is an application that allows programmers to more easily build their programs. This class will be using **NetBeans 8.2** as the IDE. Download Java with NetBeans by going to <https://www.oracle.com/technetwork/java/javase/downloads/jdk-netbeans-jsp-3413139-esa.html>. Java and NetBeans are installed on all of the UNCG computer lab computers.

## Grading Information:

Grades will be determined as follows:

Revel Reading & Programming Assignments/Quizzes	24%
Lab Assignments (There are 9 labs, and the lowest grade will be dropped)	16%
2 programming tests	20%
2 written tests	20%
Cumulative Final Exam	20%
<b>TOTAL</b>	<b>100%</b>

The grading scale, based on 100 points, is:

<b>A+</b>	<b>97 and above</b>
<b>A</b>	<b>93-96.9</b>
<b>A-</b>	<b>90-92.9</b>
<b>B+</b>	<b>87-89.9</b>
<b>B</b>	<b>83-86.9</b>
<b>B-</b>	<b>80-82.9</b>
<b>C+</b>	<b>77-79.9</b>
<b>C</b>	<b>73-76.9</b>
<b>C-</b>	<b>70-72.9</b>
<b>D+</b>	<b>67-69.9</b>
<b>D</b>	<b>63-66.9</b>
<b>D-</b>	<b>60-62.9</b>
<b>F</b>	<b>Below 60</b>

**LATE POLICY:** In order to receive full credit, assigned work must be submitted by the scheduled due date. Late assignments will **not** be accepted. If a homework assignment or test is missed, **documentation must be provided showing the reason for the student's absence**. Arrangements for make-ups of the exams are made only for official emergencies and must be made *prior* to the examination. Documentation must be provided showing the reason for the student's absence. No makeup test or assignment will be given without sufficient written documentation. **The final exam cannot be made up**. All work must be submitted by the last day of the semester.

**EXTRA CREDIT:** There is no such thing as Extra Credit.

**REVEL READING/QUIZ:** Each Monday by 10 am, the Revel assignments will be due.

- The quizzes are interspersed throughout the reading, so make sure you have completed the entire assignment and not just part of it!
- Some chapters have as little as one quiz and other chapters will have as many as ten quizzes.
- You receive unlimited chances to correctly answer the quiz questions. The goal of your taking the quizzes is to ensure that you understand the material and concepts being taught. No points are deducted for each attempt in taking a quiz. However, to earn the full points for the Revel quizzes, you must take the quiz as many times as you need to do so to earn a 100%.
- All Revel work is open for you to do so you may work ahead if you wish to do so.
- **There are no makeups for Revel quizzes.**
- You have 24 hours after the due date and time to email the instructor about issues. The instructor will review your request and modify the grade in Revel if warranted. You may not request scoring changes after this point. Do not contact the instructor at the end of the semester to recheck scores.

**REVEL PROGRAMMING ASSIGNMENT:** Each Monday by 10 am, the will be due.

- You should complete the programming assignment in preparation for the lab.
- You can attempt each programming assignment until you get it correct or until the due date/time. No points are deducted for each attempt in programming assignments.
- **There are no makeups for Revel programming assignments.**
- All Revel work is open for you to do so you may work ahead if you wish to do so.
- Do not wait until the day before to start working on the assignments!
- You have 24 hours after the due date and time to email the instructor about issues. The instructor will review your request and modify the grade in Revel if warranted. You may not request scoring changes after this point. Do not contact the instructor at the end of the semester to recheck scores.

**LABS:** Lab assignments will be posted at 10 am. This will be on Mondays for Sections 1 & 2 and on Wednesdays for Sections 3 & 4. We will still have the scheduled lab sessions and it is to your benefit to come to the lab session. The instructor and lab assistant will be available, via Zoom, to assist you during each section's two-hour time period. A Zoom link is be posted in Canvas. Each lab will need to be finished and submitted by 11:59 pm two days after your scheduled lab session day.

When you enter the Zoom lab session, you will be placed in a wait que. Once it is your turn, you will be given a 5-minute time period to get help. If you wish more help after that time period has ended, you may go back to the que.

There are 9 labs, and the lowest grade will be dropped. If you miss submitting a lab, that will become the dropped grade.

**TESTING:** There will be two written tests, two programming tests, and one final exam. The tests and final exam will be timed and conducted online using Canvas. **Note that plagiarized programs or exams, whether or not copied in whole or in part, will receive a grade of 0 (zero).**

**TIME REQUIREMENTS:** Students will be spending a considerable amount of time researching, reading, and preparing class assignments. A rough estimate, based on the mythical average student, would be 10-12 hours per week in outside class time.

### **Computer Laboratory Facilities:**

The Department of Computer Science and the Department of Mathematics and Statistics manage a lab for computer science and mathematics students in **Room 211** of the Petty Building. The computers in this lab are updated regularly and contain general software as well as any specialized software needed for computer science classes. Check the [CS Lab page](#).

No documentation or software may be removed from the Computer Lab and no programs may be installed on the machines.

The computer science department offers **free** computer science tutors. Do check the [tutoring services page](#) to see when tutors will be available to meet with you.

### **Technical support:**

The main Information Technology Services web page can be found at <https://its.uncg.edu/Help/>. You can call them at (336) 256-8324 and email them at [6-TECH@uncg.edu](mailto:6-TECH@uncg.edu).

**WITHDRAWAL:** In your time at UNCG, you may encounter a need to withdraw from a class, multiple classes, or from the University, but before you decide it is important that you understand the potential academic and financial impacts of withdrawing. Doing so will ensure that you are able to make an informed choice about the best possible option for you. Undergraduate, degree-seeking students who began at UNCG in fall 2014 or later will be limited to withdrawing from a maximum of 16 semester hours throughout their degree. You will need to drop the class by the drop/add deadline, which is located on the [Academic Calendar](#). The [Students First Office](#) is available to help you understand and interpret the withdrawal policies to help you make an informed decision about next steps.

**HEALTH AND WELLNESS:** Health and well-being impact learning, access, and academic success. Throughout your time in the university, you may experience a range of concerns that can cause barriers to your academic success. These might include illnesses, strained relationships, anxiety, high levels of stress, alcohol or drug dependency, crime victimization, feeling down, loss of motivation, or death of a loved one. Seeking support confidentially- Student Health Services (SHS), The Counseling Center, and the Campus Violence Response Center are here to help. **Learn** about the free, confidential mental health and advocacy services available on campus by calling SHS at [336-334-5874](tel:336-334-5874) or visiting us on the web: <https://shs.uncg.edu/> or calling the CVRC at 336-334-9839 or visiting us on the web at [cvrc.uncg.edu](https://cvrc.uncg.edu) or in person at the Anna M. Gove Student Health Center at 107 Gray Drive. For undergraduate or graduate students in recovery from alcohol and other drug addiction, The Spartan Recovery Program (SRP) offers recovery support services. You can learn more about recovery and recovery support services by visiting <https://shs.uncg.edu/srp> or reaching out to [recovery@uncg.edu](mailto:recovery@uncg.edu).

**CLASS DECORUM:** You are adults; I will treat you as such and have expectations that you will not show any disruptive behavior in my classroom. If you are interested, you may see [UNCG's Disruptive Behavior Policy](#).

**STUDENT SUCCESS CENTER:** The Student Success Center (SSC) was created to offer supplemental assistance to students enrolled in all courses at the College. The SSC offers a variety of services at all levels, ranging from tutoring for select courses, academic skills for any UNCG student, supplemental instruction, and counseling. The SSC web site can be found at <https://studentsuccess.uncg.edu/home/>. Physically, they are located at the Forney Student Success Commons, Rooms 114 and 214. Telephone 336.334.3878

**ACADEMIC INTEGRITY POLICY:** The Department of Computer Science seeks to comply fully with the Academic Integrity Policy (<https://osrr.uncg.edu/academic-integrity/>) set forth by the University. As such, any observed violation of this policy will result in the following:

- The instructor will determine a grade related sanction (e.g., zero for the assignment, failure of the course).
- If this is the first noted violation within the department, the instructor may decide to report this violation at the department level only. If the instructor deems this violation to be sufficiently severe, however, it may be reported at the university level regardless of any prior violations.
- In all cases, if there is a record of a previous violation, this violation will be reported to the university.

Each student is required to sign the Academic Integrity Policy on all work (lab & assignment programs and tests) submitted for the course. Refer to the Office of Student Rights and Responsibilities [Academic Integrity page](#) for more information. All student work must include the statement, "I have abided by the UNCG Academic Integrity Policy on this work," followed by the student name. Work turned in for grading should be entirely your own. Any indication of academic integrity violation (e.g., copying other's work, sharing work with others, submitting work found on the internet, etc.), will result in, at a minimum, a zero

for the assignment and a reporting of the violation to the department and university where disciplinary action will be taken.

**COMMERCIAL NOTE-TAKING SERVICES:** Selling class notes for commercial gain or purchasing such class notes in this or any other course at UNCG is a violation of the University's Copyright Policy and of the Student Code of Conduct. Sharing notes for studying purposes, or borrowing notes to make up for absences, without commercial gain, are not violations.

**ACCREDITATION:** As part of our accreditation, samples of student work will be archived. Names are removed before copying.

**STUDENT GRIEVANCE POLICY:** UNCG provides several means which a student may address complaints and grievances. Students are advised to put their concerns in writing and carefully document the events that led to the complaint or grievance. As it is sometimes confusing as to which of the routes listed below should be followed, students are advised to contact the Dean of Students Office for advice on which procedure to follow. Go to the [Student Grievance and Appeals Policies and Procedures](#) page to get help.

**OFFICE OF ACCESSIBILITY RESOURCES & SERVICES:** The University of North Carolina at Greensboro respects and welcomes students of all backgrounds and abilities. If you feel you will encounter any barriers to full participation in this course due to the impact of a disability, please contact the Office of Accessibility Resources and Services (OARS). The OARS staff can meet with you to discuss the barriers you are experiencing and explain the eligibility process for establishing academic accommodations UNCG seeks to comply fully with the Americans with Disabilities Act (ADA). Students requesting accommodations based on a disability must be registered with the Office of Accessibility Resources and Services (OARS) in 215 Elliott University Center, 334-5440, [oars.uncg.edu](http://oars.uncg.edu).

**DISCLAIMER:** This syllabus is intended to give the student guidance in what may be covered and how evaluation is done during the semester. It will be followed as closely as possible. However, the instructor reserves the right to modify, supplement and make changes as needs arise.



## Requirements in The Classroom Regarding Behaviors That Limit the Spread Of COVID-19

As we return for fall 2021, the campus community must recognize and address continuing concerns about physical and emotional safety, especially as we will have many more students, faculty, and staff on campus than in the last academic year. As such, all students, faculty, and staff are required to uphold UNCG's culture of care by actively engaging in behaviors that limit the spread of COVID-19. Such actions include, but are not limited to, the following:

- [Following face-covering guidelines](#)
- Engaging in proper hand-washing hygiene when possible
- Self-monitoring for symptoms of COVID-19
- Staying home if you are ill
- Complying with directions from health care providers or public health officials to quarantine or isolate if ill or exposed to someone who is ill.

Instructors will have seating charts for their classes. These are important for facilitating contact tracing should there be a confirmed case of COVID-19. Students must sit in their assigned seats at every class meeting and must not move furniture. Students should not eat or drink during class time.

A limited number of disposable masks will be available in classrooms for students who have forgotten theirs. Face coverings will also be available for purchase in the UNCG Campus Bookstore. Students who do not follow masking requirements will be asked to put on a face covering or leave the classroom to retrieve one and only return when they follow the basic requirements to uphold standards of safety and care for the UNCG community. Once students have a face covering, they are permitted to re-enter a class already in progress. Repeated issues may result in conduct action. The course policies regarding attendance and academics remain in effect for partial or full absence from class due to lack of adherence with face covering and other requirements.

For instances where the Office of Accessibility Resources and Services (OARS) has granted accommodations regarding wearing face coverings, students should contact their instructors to develop appropriate alternatives to class participation and/or activities as needed. Instructors or the student may also contact [OARS](#) (336.334.5440) who, in consultation with Student Health Services, will review requests for accommodations.

Health and well-being impact learning and academic success. Throughout your time in the university, you may experience a range of concerns that can cause barriers to your academic success. These might include illnesses, strained relationships, anxiety, high levels of stress, alcohol or drug problems, feeling down, or loss of motivation. Student Health Services and The Counseling Center can help with these or other issues you may experience. You can learn about the free, confidential mental health services available on campus by calling 336-334-5874, visiting the website at <https://shs.uncg.edu/> or visiting the Anna M. Gove Student Health Center at 107 Gray Drive. For undergraduate or graduate students in recovery from alcohol and other drug addiction, The Spartan Recovery Program (SRP) offers recovery support services. You can learn more

about recovery and recovery support services by visiting <https://shs.uncg.edu/srp> or reaching out to [recovery@uncg.edu](mailto:recovery@uncg.edu).

COVID-19 Spartan Shield Video UNCG Chancellor Frank Gilliam has challenged us to create a Culture of Care at UNCG where we all wear face coverings and social distance, less to protect ourselves but rather more to protect everyone around us. It shows that you care about the well being of everyone around you. We have created this video featuring your student body presidents to better explain how and why this is so important. Please watch this video before the first day of classes.

<https://youtu.be/Mb58551qxEk>

