CSCI 1301: Introduction to Computing and Programming
Spring 2023
Section 27812

Instructor: Diane Stephens (diane.stephens@uga.edu).
Lecture Times: Tues and Thur 9:35AM–10:50AM
Lecture Location: Room 404E in the Biological Science building
Labs:

Section 26939:	Mon and Wed	08:00AM–08:50AM in Boyd 202
Section 26959:	Mon and Wed	12:40PM–01:30PM in Boyd 202
Section 26962:	Mon and Wed	01:50PM–02:40PM in Boyd 202
Section 26985:	Tues and Thurs	02:20PM–03:10PM in Boyd 201

Students shall attend only the lab section that they registered for, and students are *NOT* permitted to attend a lab section unless they are enrolled in that lab section (no lab switching or attending another lab section). Additional information about labs are provided in the Labs section in this document.

1 Brief Description

Algorithms, programs, and computing systems. Fundamental techniques of program development and supportive software tools. Programming projects and applications in a structured computer language.

2 Extended Description

This course is a *rigorous* introduction to problem solving using fundamental programming techniques: variables, operators, expressions, decision statements, loops, nested statements, arrays, methods, objects, classes, inputs, outputs, and other computer science topics. This course includes programming projects incorporating algorithm design and implementation with a structured computer language and hands-on experience creating, testing, and debugging software. This course is both a *rigorous* and *programming intensive* course designed for computer science and data science majors. Students who want to enroll in a less rigorous programming course designed for majors other than computer science or data science should consider enrolling in CSCI 1300 instead of CSCI 1301.

Students are expected to spend, on average, six to eight hours per week outside of lectures and labs studying course concepts, keeping up with textbook readings, practicing programming, and working on programming assignments. The course focuses on Java, an object-oriented programming language and other computer science topics. Textbook readings, lab assignments, and programming projects will be assigned throughout the semester as homework. Quizzes and Exam 1 will take place during lecture class periods. A final exam will be given during the final time for this course.

3 Prerequisites

MATH 1113 (Precalculus) is a required prerequisite. Students with weak backgrounds in Precalculus may find it difficult to make a good grade in this course. Students who do not meet the prerequisite maybe withdrawn from the course at the instructor's discretion.

4 Learning Outcomes

By the end of the course, students should be able to:

1. Explain and describe basic computing concepts required for programming.

2. Utilize software development tools, including tools for editing, compiling, testing, running, and debugging software solutions.
3. Describe and utilize basic language constructs, which include data types, input, output, variables, constants, assignment statements, arithmetic, and boolean expressions.
4. Trace, design, and implement software solutions to non-trivial problems using control flow structures.
5. Trace, design, and implement software solutions to non-trivial problems using basic data structures.
6. Trace, design, and implement software solutions to non-trivial problems using object-oriented programming techniques.
7. Combine control flow statements, basic data structures, and object-oriented programming techniques to create an interactive software solution to a problem.

5 Required Texts and Required Materials

1. Walter Savitch. *Java: An Introduction to Problem Solving and Programming (8th Edition)*. ISBN-13: 978-0134462035. Students are required to purchase this edition of the textbook.
2. You must bring your valid *UGA OneCard* to all classes, labs, office hours, and exams. Students are required to present their *UGA OneCard* if asked by an instructor or a member of the teaching staff.

6 Required Hardware and Required Software

1. All students are required to have a laptop computer with the Windows 10, Windows 11 or MacOS operating system that supports the installation of Java and Eclipse. All students are required to have administrative access and sufficient hard drive space on their laptops in order to install the required software used in this class. MacOS Monterey is the operating system used by the instructor for this class. However, students may use another operating system as long as they can install the required versions of Java and Eclipse used for this class. If you need assistance installing Java and Eclipse for another operating system, then please email the teaching staff before the end of drop/add.
2. All students are required to have an active internet connection throughout the semester. Students who lose internet access are required to go to a location that has an active internet connection BEFORE any graded content is due. Students may use the wireless network on UGA's campus in Athens, GA. Lack of internet access is *NOT* an excuse to miss a deadline.
3. All students should install at least three web browsers on their laptops:
   (a) Mozilla Firefox,
   (b) Google Chrome, and
   (c) one of the following: Brave, Microsoft Edge, or Safari.

   If a webpage used by this class does not load correctly in one of these web browsers, then students should try to the open the webpage in another web browser.
4. Java Platform (JDK) Standard Edition 11 (from `www.oracle.com`). Students are required to use this version of Java. Videos will be posted on eLC during the first week of class describing how to download and install Java on Windows 10 and Mac.
5. Eclipse IDE. No other IDEs are permitted to be used in this class. Videos will be posted on eLC during the first week of class describing how to download and install Eclipse on Windows 10 and Mac.
6. All students are required to have a USB drive with at least 1 GB (gigabyte) to backup any files they create for labs and projects during this semester. All students are required to backup their own files for this class, and students will not be excused for missing a deadline because one or more of their files were lost or damaged.

7 eLearning Commons (eLC)

In this class, we will use the eLC (eLearning Commons) course page: _CSCI1301L Intro Computing Program Lab Spring 2023. Students will submit assignments and graded materials on eLC. Grades and office hours will be posted on eLC. Important links and course content will be made available there. It is your responsibility to check the eLC course site at the start of each lab period for new information, announcements, or changes on eLC. Do *NOT* use eLC to message or email the instructor or teaching staff; instead, students should follow the email policies stated later in this document.

8 Attendance Policies

Students are responsible for attending lecture class periods, their lab periods after labs begin, and exams. Attendance may be recorded. Students should bring their *UGA OneCards*, laptops (charge your laptops before class since there may not be enough electrical outlets in the classroom for each student), pencils, and paper to classes and labs. Students are responsible for participating in discussions and active learning exercises. Students should practice the concepts covered in the lectures on a regular basis to prepare for future graded assignments and exams. Note-taking and practicing concepts on a regular basis are required for this course.

Absences in this course should be rare and students may discuss getting an absence excused if the absence is due to a serious illness, emergency situation, or COVID-19 symptoms. In the case of a serious illness, emergency situation, or COVID-19 symptoms, students must provide a copy of detailed documentation (doctor's note, etc.) regarding their absence to the lecture instructor's office hour or via email no more than two calendar days after an absence to be considered for an excused absence. If you feel sick enough to miss a class or lab, then you are required to provide a doctor's note (or note from the health center) to the lecture instructor regarding your absence. Students who wish to request an excused absence for religious purposes must send an email that lists all dates needed for an excused absence due to religious purposes this semester to the lecture instructor. This list must be emailed to the lecture instructor before the end of the second week of classes. All absences are considered as unexcused until they are excused by the lecture instructor. The lecture instructor has full authority to decide to excuse an absence or not to excuse an absence. Also, the lecture instructor has full authority to limit the number of excused absences a student may receive. Regardless of an absence being excused or unexcused, students are required to learn all material covered on the day(s) they were absent before the next quiz or exam. Also, regardless of an absence being excused or unexcused, students are responsible for submitting lab and project assignments before their deadlines.

9 Quizzes

Quizzes may occur during lecture periods. All quizzes are individual assignments (*no collaboration is permitted* unless otherwise stated by the lecture instructor). Students who do not complete and submit a quiz *BEFORE* its deadline will receive a grade of zero on that quiz. If a quiz is missed due to an excused absence granted by the lecture instructor (as described in the Attendance Policy section), then the student may request, by emailing the lecture instructor, a regrade of that quiz no more than two calendar days after the quiz was missed. If the regrade is granted by the lecture instructor, then typically the missed quiz grade will be replaced by the average grade (scaled if necessary) of other quizzes.

10 Labs

During the drop/add period, lab(s) will be assigned as homework on eLC. The date that students should start attending their lab periods will be announced on eLC. Each lab period is 50 minutes long, and each

registered lab section has two 50 minute periods. The lab periods on Tuesdays and Thursdays will meet for the first 50 minutes of the period. All students are required to register for one lab section. Since lab attendance is important to this course, it will be required and recorded after the labs start, which is typically the Monday after drop/add ends unless otherwise stated by the instructor.

Labs will be assigned as homework throughout the semester on eLC. Students are expected to start a lab assignment early. Students may ask questions about a lab assignment or programming project during their lab sections. Lab assignments are due *BEFORE* the deadline specified on eLC. However, with the exception of the last lab assignment, they may be submitted up to 48 hours late with points deducted for a late submission. *No assignments will be accepted after the 48 hour cutoff.* For the last lab assignment, no late lab submissions will be accepted. All programs and files for an assignment must be submitted on eLC. Otherwise, a grade of 0 will be assigned. Submitted lab assignments must compile in order to receive credit (lab assignments that will not compile will receive a grade of 0). All lab assignments are individual assignments (*no collaboration is permitted*). Students are responsible for checking the correctness of their lab assignments before submitting them. After submitting a lab assignment, students should double check that their eLC submission was successful and the correct version of their file(s) were submitted on eLC. No makeup labs will be given. After labs start, a student's lab attendance may makeup a part of each lab assignment's grade.

If a lab instructor is unable to attend their labs due to an illness, emergency situation, COVID-19 related symptoms, etc., then their labs may be moved online to Zoom.

11 Projects

Programming projects will be assigned as homework throughout the semester on eLC. Students are expected to start a project early. Projects are due *BEFORE* the deadline specified on eLC. However, with the exception of the last project, they may be submitted up to 48 hours late with points deducted for a late submission. *No projects will be accepted after the 48 hour cutoff.* For the last project, no late project submissions will be accepted. All programs and files for a project must be submitted on eLC. Otherwise, a grade of 0 will be assigned. Submitted projects must compile in order to receive credit (projects that will not compile will receive a grade of 0). All projects are individual assignments (*no collaboration is permitted*). Students are responsible for checking the correctness of their projects before submitting them. After submitting a project, students should double check that their eLC submission was successful and the correct version of their file(s) were submitted on eLC. No makeup projects will be given.

12 Exams

There will be one exam and a final exam, and both exams will take place in the lecture classroom. Exams will be formatted as paper/pencil exams. Students are required to bring their *UGA OneCard*, number two pencils, and an eraser to all exams. All exams are individual assignments (*no collaboration is permitted*). All instructions written on an exam or stated by the instructor before or during an exam must be followed. Students late to an exam may have points deducted from their exam grade, and they will have less time to complete the exam due to their lateness. Tentative dates for each exam are given below.

Exam 1:	March 2nd, 2023, 09:35AM–10:50AM in the lecture classroom
Final Exam:	May 9th, 2023, 08:00AM–11:00AM in the lecture classroom

Students may *NOT* use or wear any electronic devices during an exam unless they receive written permission from the instructor before the start of the exam. If a student is caught using or wearing any unauthorized electronic device, then that will constitute unauthorized assistance (cheating).

Makeup exams will not be given. However, if exam 1 is missed because of an absence due to an extreme and verified emergency, then it might be excused by the instructor. To be considered for an excused exam

absence, students must provide detailed documentation explaining the circumstances to the instructor during the lecture instructor's office hours or via email no more than two calendar days after an exam is missed. Student must leave a copy of their documentation with the instructor. The instructor has full authority to decide whether or not to excuse an exam absence. If the absence is excused, then the final exam score (scaled if necessary) will be counted for the missed exam. If the absence is not excused, then a grade of 0 will be given. Only one exam may be excused. If two exams are missed, then a grade of 0 will be recorded for all missed exams. To reduce the number of cases of academic dishonesty, exams will not be handed back to students to look over or keep after they are graded. Students will receive a numeric score on their exam after its been graded; however, no other feedback will be given to students regarding their exam scores.

Exam 1 must be taken at its scheduled time and place. Also, the final exam must be taken at its schedule time and place unless the student has an official UGA final exam schedule conflict as defined at `https://reg.uga.edu/general-information/calendars/final-exam-schedule/`.
If a student has an official UGA final exam conflict, then they must bring a completed petition to reschedule, `https://reg.uga.edu/_resources/documents/curriculum/_documents/exam_petition.pdf`,
and its accompanying documents to the lecture instructor's office hour three weeks before the final exam's date to be considered for an final exam reschedule. Final exams will not be rescheduled for any other reason.

13 Laptop, Cell Phone, and Headphone Policies

Students may use laptops during lectures to take notes, to participate in some classroom activities, and to enhance their classroom experience as long as their usage does not disrupt other students, TAs, or the instructor. No cell phones may be used during class unless you are calling 911 for an emergency. No headphones, earbuds, airpods, etc. may be used or worn during class unless you have written permission from the instructor. Silence all laptops before class starts. Silence and put away all cell phones, headphones, earbuds, airpods, etc. before class starts. Also, dim all laptop screens to avoid disrupting others. If laptop use disrupts others, then a student may be asked to put away the device or to leave the class for that day. Students may not use or wear any electronic devices during an exam unless they receive written permission from the instructor before the start of the exam.

14 Grade weights

Exam 1 (25%), Final Exam (25%), Quizzes (20%), Projects (12%), Lab Assignments (18%).

15 Final Letter Grades

The final course grade will be computed by the weighted average using the aforementioned grade weights, and the final letter grades will be determined according to the following scale:

$A \geq 90$	$90 >$ A- ≥ 88	$88 >$ B+ ≥ 85	$85 >$ B ≥ 80	$80 >$ B- ≥ 78
$78 >$ C+ ≥ 76	$76 >$ C ≥ 70	$70 >$ C- ≥ 68	$68 >$ D ≥ 60	$F < 60$

The instructor reserves the right to curve grades or to assign extra credit on a case-by-case basis. Extra credit assignments and curves are rare in this class. Students must be registered for this course in order to attend class and to receive any grades. Typically, grades of Incomplete will *NOT* be assigned to students.

16 Grade Statistics and Grade Distribution Policy

To protect the privacy of the students enrolled in this class, the teaching staff will not provide or discuss, to students or any unauthorized person, any statistics or grade distributions about graded content in this class.

17 Auditing and Pass/Fail

Since this course is required for computer science majors and space is limited, auditing this class or taking this class as pass/fail will typically not be permitted by the instructor.

18 Late Adds

No late adds will be permitted to enroll in the course after the drop/add period ends.

19 Regrade Requests

With the exception of the final exam, students may request a reevaluation of graded materials if they believe the grade is incorrect due to a mistake on part of the teaching staff. In order to be considered, students must send a regrade request within seven calendar days after the grade was posted on eLC for grades posted to eLC before the last day of class day (as defined on UGA's academic calendar). For grades posted on or after the last day of class, students must send a regrade request within two calendar days after the grade was posted on eLC. Regrade requests for labs and projects should be emailed to your lab instructor from your UGA email account with a subject that contains "cs1301 regrade request for y", where y is the name of the assignment, and the lecture instructor should be cced on the email. Regrade requests for quizzes and exams should be emailed to your lecture instructor from your UGA email account with a subject that contains "cs1301 regrade request for y", where y is the name of the exam. The regrade request for labs and projects should include which parts of the assignment were incorrectly graded by the teaching staff. Regrade requests will only be granted in the cases where a grader made a mistake grading your assignment. Regrade requests may result in a lower grade. If you submit the wrong file(s) for a graded assignment, then that is *NOT* grounds for a regrade request.

20 Email

Unfortunately, email communication does not scale to hundreds of students, and students should visit office hours of the teaching staff instead of emailing the instructor. However, if you must email the teaching staff, then you must use your UGA email account and put a [cs1301] tag in the subject of your email when corresponding with the instructor or a member of the teaching staff about course related matters. Email communication should NOT be treated as an alternative to meeting with the instructor or teaching staff during office hours. Email will not be used to provide private tutorials or to explain material that was covered in missed lectures or labs. If an email question cannot briefly be answered with a reply email, the instructor or teaching staff will indicate to the student that she or he should see the instructor or a member of the teaching staff during office hours. The teaching staff will not debug programs through email. If you cannot get in touch with a member of the teaching staff via email, then you should visit them during their next office hour.

21 Conduct Policy

Students are expected to be courteous and respectful in all interactions with fellow class members, the teaching staff, and the instructor (whether this interaction occurs online, during class (or lab), or outside of class (or lab)). Student misconduct will not be tolerated. Student misconduct includes, but not limited to, arguing with an instructor or member of the teaching staff about course policies, being rude or disrespectful towards a fellow class member or a member of the teaching staff, disrupting class, refusing to follow course policies or instructions stated by a member of the teaching staff. For the first case of student misconduct, students may have points deducted from their quiz score, and their final grade might be lowered by one full letter grade (i.e. an A becomes a B, B+ becomes a C+, etc.) at the instructor's discretion. In extreme cases, or if the misconduct persists, a grade of F will be assigned to the student, and the student will not be allowed to attend class or labs thereafter.

22 Academic Honesty

As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, "A Culture of Honesty," and the Student Honor Code. All academic work must meet the standards described in "A Culture of Honesty" found at: `https://honesty.uga.edu`. Artificial intelligence-based technologies, such as ChatGPT, must not be used to generate responses for your coursework in this class. Furthermore, lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

Furthermore, taking a picture of, recording, selling, posting, or giving away any course content such as slides, notes, or any information about exams, quizzes, assignments, projects, or lectures is considered an act of academic dishonesty (unauthorized assistance) unless you have written permission from the instructor. The teaching staff has the right to run programs to detect evidence of unauthorized assistance (usually in the form of copying from another person or unauthorized source) in any assignment submitted by a student in this semester, previous semesters, or future semesters. Also, the teaching staff has the right to record lectures, labs, quizzes, and exams for academic honesty purposes.

In addition, students are expected to abide by the School of Computing's academic honesty policies stated in the next section.

23 School of Computing Policy Statement on Academic Honesty

The School of Computing recognizes honesty and integrity as necessary to the academic function of the University. Therefore all students are reminded that the School of Computing faculty requires compliance with the conduct regulations found in the University of Georgia Student Handbook. Academic honesty means that any work you submit is your own work.

Common forms of academic dishonesty against which students should guard are:

1. Copying from another student's test paper or laboratory report, or allowing another student to copy from you;
2. Fabricating data (computer, statistical) for an assignment;
3. Helping another student to write a laboratory report or computer software code that the student will present as her or his own work, or accepting such help and presenting the work as your own;
4. Turning in material from a public source such as a book or the Internet as your own work.

Steps to help prevent academic dishonesty are:

1. Familiarize yourself with the regulations.
2. If you have any doubt about what constitutes academic dishonesty, ask your instructor or a staff member at the Office of the Vice President for Instruction.

3. Refuse to assist students who want to cheat.

All faculty, staff, and students are encouraged to report all suspected cases of academic dishonesty. All cases of suspected academic dishonesty will be referred to the Office of the Vice President for Instruction. Penalties imposed by the Office of the Vice President for Instruction may include a failing grade in the course and a notation on the student's transcript. Repeated violations are punishable by expulsion from the University. For further information please refer to the UGA Code of Conduct policies, available at the URL below.

`https://conduct.uga.edu/`

24 University Closure

In the event the University closes temporarily during the semester due to inclement weather, emergencies, pandemics, etc., the number of graded assignments (lab assignments, projects, and quizzes) maybe reduced. However, the way grades are calculated in this class will typically not change. In such an event, an announcement will be posted on eLC regarding any changes to the class.

25 Class Accommodation

Students with a disability or health-related issue who need a class accommodation should make an appointment to speak with the instructor as soon as possible. Students who require such an accommodation for an exam must schedule their exam with the DRC (Disability Resource Center at UGA) at least two weeks before the date of the exam. The exam should be scheduled to start at the same time the class starts the exam.

26 Communication with Parents, Guardians, etc.

The teaching staff will *NOT* communicate with parents, guardians, relatives, family members, friends, employers, coaches, or representatives of students enrolled in this class unless that student is unable to communicate with the teaching staff due to medical reasons.

27 Syllabus Policy

Students are responsible for learning and following all policies stated in this syllabus. This course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.

28 Mental Health, Wellness, and Hardship Resources

If you or someone you know needs assistance, you are encouraged to contact Student Care and Outreach in the Division of Student Affairs at 706-542-7774 or visit `https://sco.uga.edu`. They will help you navigate any difficult circumstances you may be facing by connecting you with the appropriate resources or services. UGA has several resources for a student seeking mental health services (`https://www.uhs.uga.edu/bewelluga/bewelluga`) or crisis support (`https://www.uhs.uga.edu/info/emergencies`). If you need help managing stress anxiety, relationships, etc., please visit BeWellUGA (`https://www.uhs.uga.edu/bewelluga/bewelluga`) for a list of FREE workshops, classes, mentoring, and health coaching led by licensed clinicians and health educators in the University Health Center. Additional resources can be accessed through

the UGA App. If a student experiences significant personal hardships during the semester that negatively and significantly impacts their work in this course, then that student should contact Student Care and Outreach for a hardship withdrawal at `https://sco.uga.edu/sco/hardship-withdrawals`.