
PRINCIPLES OF COMPUTER SCIENCE II

CSc1302 (T and H, 14:15-15:30)

Arts & Humanities, Room 300

Lab sessions are at various times and locations according to your chosen CRN in PAWS.

CRN Sections: Honghui Xi - 84981-Sec010; Tuesday 17:00-18:40; Classroom South 400
 Jinkun Han - 84982-Sec012; Thursday 9:00-10:40; Classroom South 400
 Abhinav Peddi - 84983-Sec014; Thursday 17:00-18:40; Classroom South 400
 Jinkun Han - 84984-Sec016; Tuesday 9:00-10:40; Classroom South 400

Course Description

Welcome to **CSc1302: Principles of Computer Science II**. We're going to have a great time this Fall as we continue to explore object-oriented programming with Java together. My name is William Gregory Johnson and I'll be your professor. You can call me Dr. Johnson or professor. I've taught this course more than a dozen times and enjoy it because this course gives you final parts of the foundation to understanding and learning the fundamentals of object-oriented programming in computer science. Please note, this syllabus reflects a plan for the semester and deviations may become necessary as the semester progresses. The university is requiring each course to use a seating chart, and this must be followed due to COVID-19 infection contact tracing, should you or your classmate become infected with COVID-19 or a variant.

Course Outcomes

After finishing this course, you should be able to:

- Compare and contrast abstract data types versus objects.
- Demonstrate an understanding of polymorphism and inheritance for objects.
- Determine output from a segment of code, which uses a recursive subprogram.
- Create and handle program exceptions properly, taking into account the context of the exception.
- Compare and contrast static and dynamic data structures.
- Choose and manipulate computer files, streams, and buffers.
- Create a basic graphical user interface (GUI) for a program.
- Understand the basics of multi-threading and parallelism in Java programming.

Your new skills should help you in the following ways:

- Prepare you for Data Structures (CSc2720).
- Give you the tools to deconstruct complex, abstract problems using algorithms and logic.

Assessments (exam & homework)

I've designed a variety of assessments to help you practice your disciplinary thinking and skills in Java programming. Your tests will be proctored, face-to-face in this classroom setting. I will be using a seating chart established in the first week of this course. This must be followed due to COVID contact tracing, should you or your classmate become infected with the COVID-19 virus or its variants.

Event	Quantity	Course Grade Weight
Regular Exams	2	40%
Labs	10 to 14 (TBD)	30%
Final Exam	1	20%
Homework Assignments	10-14 (TBD)	10%

COURSE HELP

How to Establish Contact?

I prefer to be contacted in the following way(s):

- **GSU Email: wjohnson6@gsu.edu (Do NOT use iCollege email.)**
- **Phone/Text: 404-348-6923 (put your name and course title in first text, so I know it's not spam.)**
- Office location: **1 Park Place, 7th Floor, Rm 717**
- My office hours are Monday and Wednesday at 15:30 to 16:30. If this time does not work, please make an appointment with me at least 48 hours in advance, so our schedules can be adjusted to meet.

How to Access the Course?

You can login to your course via [iCollege](#). If you need more help, you can review the Welcome to iCollege help-guide. If you have problems accessing your course, please contact the helpdesk: helpdesk@gsu.edu.

What Are The Required Materials?

The following resources are required for this course:

- *Java Programming, Ninth Edition*, Joyce Farrell, ISBN-13: 978-1-337-39707-0
- *MindTap* for the homework portion. This is part of the publisher's, Cengage, system and requires a separate fee. You can purchase the MindTap separately, or combined with the e-book from Cengage. You can purchase the MindTap separately, or combined with the e-book from Cengage. Instructions:
 1. Use the course registration link <https://www.cengage.com/dashboard/#/course-confirmation/MTPNKDSQMWBK/initial-course-confirmation> Follow the instructions on screen to create your Cengage account and register for this MindTap course.
 2. Begin your temporary access* period: MindTap course until 4:00 AM (UTC) on 8/30/2021 for free. At the end of the temporary access period, you will be prompted to purchase access. Your work will be saved and will be available to you again once you've completed your purchase.
 3. Need help? Visit the Cengage Start Strong Website (<https://startstrong.cengage.com>) for step-by-step instructions. Live phone support (1-800-354-9706) and through support.cengage.com

4. If you are having trouble loading MindTap, run the MindTap browser check (<https://ng.cengage.com/static/browsercheck/index.html>) to make sure your browser is compatible or refer to the MindTap System Requirements (<https://help.cengage.com/mindtap/MindTap-System-Requirements.pdf>). If MindTap isn't loading, be sure to visit Techcheck (<https://techcheck.cengage.com>) to see if there is an outage.
5.
 - You will need a computer on which to build your java programs and save your labs to upload into iCollege Assessments. It should be capable to run the Java 9 (or higher) compiler and runtime environment.
 - Additionally, you will benefit with some type of IDE, preferably Eclipse.
 - The textbook (e-book or PDF is fine), MindTap, and a computer will be ESSENTIAL to work on the programming components in your course exercises and lab assignments. Components and instructions for the multi-threading and parallelism will be given after the midpoint of the course.

SCHEDULE

We do have a set schedule and please note that deviations may become necessary as the semester progresses. You'll want to refer to the calendar below frequently as we work together. I have also designed the iCollege course in such a way to help us all stay on track, including building in **module introductions, due dates attached to grade items, reading assignments, MindTap assignments, and calendar events**. This course is divided into **FOUR** Modules. For detailed information about what's required for each Module, visit iCollege and check out the Module Introductions. Since this is a 4-Credit Hour course GSU recommends that you spend around **4 hours or more per week** interacting with readings, videos, and other sorts of content and **then 4 hours per credit hour per week** completing activities, labs, and assessments.

Please talk to me and your advisor before withdrawing from this course. We care about your success and are here to discuss your options with you. The last day to withdraw without penalty is **October 12th**.

August 24 and August 26	Welcome to the Course, seating chart, syllabus, lab introduction	Your task is to complete the Module by 08/26	My task is to validate by 08/31
August 31 – September 9 <u>(Labs start on August 31st)</u>	Module 1 Review, Chapter 9, Chapter 10	Your task is to complete the Module by 09/09	My task is to validate by 09/13

September 14 – September 28	Module 2 Chapter 11 and 12	Your task is to complete the Module by 09/28	My task is to validate by 09/30
September 30 – October 14 (<u>Exam 1 on October 7th</u>)	Module 3 <u>EXAM 1 (Ch 9, 10, 11, 12)</u> , Chapter 13	Your task is to complete the Module by 10/14	My task is to validate by 10/18
October 19 – December 2 (<u>Exam 2 on November 30th</u>)	Module 4 Chapter 14, Recursion, Threads, Parallelism <u>EXAM 2 (Ch 13, 14, Recursion, Threads)</u>	Your task is to complete the Module by 12/02	My task is to validate by 12/15
December 9 THURSDAY 13:30-16:00	<u>FINAL EXAM THURSDAY (not tuesday)</u>		

COURSE POLICIES

Sharing Instructor Created Materials

University policy prohibits students from posting instructor-generated materials on external sites. The selling, sharing, publishing, presenting, or distributing of instructor-prepared course lecture notes, videos, audio recordings, or any other instructor-produced materials from any course for any commercial purpose is strictly prohibited unless explicit written permission is granted in advance by the course instructor. This includes posting any materials on websites such as Chegg, Course Hero, OneClass, Stuvia, StuDocu, YouTube, and other similar sites. Unauthorized sale or commercial distribution of such material is a violation of the instructor's intellectual property and the privacy rights of students attending the class and is prohibited.

Attendance and Participation Policy

Course participation is beneficial to your success. This course has **28** required meetings on **Tuesdays and Thursdays at 14:15** in the **Arts and Humanities Building, Room 300**. Your labs are also required to be face-to-face in your chosen time and location. You are encouraged to wear a face covering in all class/lab meetings. I know that face masks may make some aspects of class more difficult. It will be harder for us all to project our voices and read each other's facial expressions. However, I am willing to sacrifice these elements since wearing a mask is one thing I can control to support the health and safety of our community. Be aware that wearing face mask is not required by GSU, so there is no penalty if you choose to not wear a mask. Our university community has a strong tradition of upholding the value of mutual respect, I therefore ask students to not engage in behavior that would be disruptive if your

fellow students make a different choice about wearing masks. If you have concerns, please discuss them with me and your Lab Instructor and we will work to the best of our ability to provide a comfortable environment conducive to student learning. COVID mask restriction information can be found here: <https://covidinfo.gsu.edu/vaccine>.

A well-developed attendance policy will be especially helpful this year and you are expected to attend class if you do not have an excused absence because of illness. University has a process for students seeking excused absences through the Dean of Students Office. Students submit documentation to: <https://deanofstudents.gsu.edu/student-assistance/professor-absence-notification/>. I will be notified by the Dean of Students of any excused absence without the need to manage medical information individually.

Make-up Policy

- Make-up exams are not allowed unless a true emergency situation is involved and unavoidable. If you do find yourself with this dilemma, you must contact me via text AND email as soon as possible when it is safe to do so. Waiting longer past your exam event will worsen your chances of being granted a make-up opportunity. Your situation will be evaluated, and a live, face-to-face, oral exam will be given by myself within seven (7) days of the missed exam date. This period may be adjusted with regards to your individual circumstances.
- Make-up and late lab assignments are not allowed. Labs are designed to be completed within the timeframe of your chosen section and being present with your lab instructor is very important to effective learning.
- Make-up and late homework assignments are not allowed. The use of MindTap for your homework assignments are timed to coincide with the course content and pedagogy delivery. This paring is by design to aid in your learning of the course topics.

Basic Needs Statement

Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact the Dean of Students for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable us to provide resources that we may possess. The Embark program at GSU provides resources for students facing homelessness.

Course Evaluation and Evolution

Your constructive assessment of this course plays an indispensable role in shaping education at Georgia State. Upon completing the course, please take time to fill out the online course evaluation.

Academic Honesty

All parties involved in cheating and/or plagiarism will be given a zero on the specified assignment or event for the first offense. By all parties, I mean the person(s) who used someone else's work and the person whose work was used. A second offense of cheating and/or plagiarism will result in a grade of F for the course and possible expulsion from university.

Academic Honesty Policy: <https://deanofstudents.gsu.edu/files/2019/07/Academic-Honesty-Policy.pdf>

Accommodation

Students who wish to request accommodation may do so by registering with the Office of Access and Accommodation. Students may only be accommodated upon issuance by a signed Accommodation Plan and are responsible for providing a copy of that plan to me and lab instructors in which accommodations are sought. Students with special needs should then make an appointment with me during the first week of class to discuss any accommodations that need to be made. <https://access.gsu.edu/>

FERPA

In keeping with University System of Georgia and GSU policy, this course website will make every effort to maintain the privacy and accuracy of your personal information. Specifically, unless otherwise noted, it will not actively share personal information gathered from the site with anyone except university employees whose responsibilities require access to said records. However, some information collected from the site may be subject to the Georgia Open Records Act. This means that while we do not actively share information, in some cases we may be compelled by law to release information gathered from the site. Also, the site will be managed in compliance with [the Family Educational Rights and Privacy Act \(FERPA\)](#), which prohibits the release of education records without student permission.

Sexual Harassment

In instances of sexual misconduct, the present instructor(s) and teaching assistants, are designated as Responsible Employees who are required to share with administrative officials all reports of sexual misconduct for university review. If you wish to disclose an incident of sexual misconduct confidentially, there are options on campus for you do so. For more information on this policy, please refer to the [Sexual Misconduct Policy](#) which is included in the GSU Student Code of Conduct.

Campus Carry

The Campus Carry legislation allows anyone properly licensed in the state of Georgia to carry a handgun in a concealed manner on university property with noted exceptions. Information about the law can be found at safety.gsu.edu/campus-carry. It is the responsibility of the license holder to know the law. Failure to do so may result in a misdemeanor charge and may violate the Georgia State Student Code of Conduct. Please follow the guidelines established by the Board of Regents.