



**Middle Georgia  
State University**

SCHOOL OF COMPUTING  
Department of Computer Science

## SECTION 1 - GENERAL COURSE INFORMATION

|                                  |                            |
|----------------------------------|----------------------------|
| <b>Course Title:</b>             | <b>Computer Science II</b> |
| <b>Course Prefix and Number:</b> | CSCI 1302-01               |
| <b>Course CRN#:</b>              | 81515                      |
| <b>Semester &amp; Session:</b>   | Fall 2024 – Full           |
| <b>Campus Location:</b>          | WRC1 111 (Warner Robins)   |
| <b>Meeting Days:</b>             | Tuesday and Friday         |
| <b>Meeting Time:</b>             | 9:55am – 11:20am           |

## INSTRUCTOR'S INFORMATION

|                                |                         |   |
|--------------------------------|-------------------------|---|
| <b>Name:</b>                   | <b>Dr. Joobum Kim</b>   |   |
| <b>E-mail Address:</b>         | joobum.kim@mga.edu      |   |
| <b>Office Location:</b>        | ASB 225 (Warner Robins) |   |
| <b>Office Phone Number:</b>    | 478- 471 – 5741         |   |
| <b>Tentative Office Hours:</b> | <b>Monday</b>           | 10:00am – 11:00am, 12:15pm – 2:15pm (Macon) |
|                                | <b>Tuesday</b>          | 11:30am – 2:45pm (Warner Robins)            |
|                                | <b>Wednesday</b>        | 10:00am – 11:00am, 12:15pm – 1:00pm (Macon) |

## COVID-19 STATEMENT

*The University System of Georgia (USG) continues to recognize COVID-19 vaccines and boosters offer safe, effective protection and urges all students, faculty, staff and visitors to get vaccinated and/or boosted either on campus or with a local provider.*

*We encourage our MGA community to adopt a self-care and personal responsibility approach to wellness as positive actions to protect self and others; each of us doing our part to keep the MGA community healthy and campus academics and activities thriving.*

*Beginning Fall 2022, MGA will treat COVID-19 as we do other infectious disease cases.*

*If you have tested positive for COVID-19, please contact your primary care physician, email [covid19support@mga.edu](mailto:covid19support@mga.edu), and review [the Isolation and Exposure Calculator](#) to determine the appropriate actions to take.*



## SECTION 2 - DETAILED COURSE INFORMATION

**Course Prerequisite:** At least a C in CSCI 1301  
**Credit Hours:** 3  
**Course Description:** This course includes an overview of abstract data types (ADT's); arrays (multi-dimensional) and records; sets and strings; binary files; searching and sorting; introductory algorithm analysis (including Big-0); recursion; pointers and linked lists; software engineering concepts; dynamic data structures (stacks, queues, trees).

**Student learning outcomes:** Upon completion of this course the students will be able to:

- Plan, design, implement, test, debug, and deploy a complete object-oriented software solution.
- Define and apply recursion as a problem-solving technique.
- Define and use inheritance in software projects.
- Define and implement polymorphism in software projects.
- Classify and utilize common data structures, including lists, arrays, and dictionaries.
- Create graphical user interfaces.
- Implement exception handling in software projects and explain its importance.
- Describe and apply software design techniques, including design patterns, unit testing, and debugging techniques.
- Apply pair programming principles to a software-based project.

**Topics:**

- Variables and Data Types
- Conditional Structures
- Lists and Tuples
- Strings
- Loops and Repetition Structures
- Dictionaries and Sets
- Functions and Methods
- Classes and Objects
- Object-Oriented Programming Principles
- Exceptions and File Handling
- GUI Programming
- Recursion
- Sorting, Searching, and Algorithm Analysis
- Stacks and Queues

**Required course materials:** The instructor will provide materials online at no cost.

**Technology Requirement:** Python 3 - <https://www.python.org/downloads/>  
Visual Studio Code - <https://code.visualstudio.com/>

**Library/Learning Resources:** As a Middle Georgia State University student, you have complete access to GALILEO (Georgia Library Learning Online), a virtual library of licensed commercial databases. It provides access to over 100 databases indexing thousands of periodicals and scholarly journals. There are over 10,000 journal titles available in full-text. Additional GALILEO resources include e-books, government documents, reference collections, and video databases. The Middle Georgia State University library also has core collection with locally purchased resources to support this graduate course. Currently the exclusive holdings for the B.S. / M.S. in Information Technology graduate courses are as follows: e-Journals = 1,661, Print Books = 1,164, e-books = 4,325, and DVDs = 66.

The following are examples of online databases that support this undergraduate course. They are available to you through GALILEO and/or institutionally funded subscriptions:

- ACM Digital Library
- Computer Source
- Computing (ProQuest)
- Academic Search Complete
- Research Library (ProQuest)
- Wilson Omnifile: Full-Text Mega Edition
- Google Scholar
- Films on Demand

Tutoring is available free of charge on all MGA campuses for currently enrolled students. To view center contact information, subjects tutored, and tutor availability, go to the SSC website at <http://www.mga.edu/student-success-center/>. SSC tutoring sessions may be scheduled online and face-to-face through the “Book an Appointment” link on the Student Success Center website. Other services at the SSC include online academic workshops and a robust website with resources for academic assistance. The centers also have computer workstations, printing, and Internet access.

## SECTION 3 - COURSE ASSESSMENT INFORMATION

### Course Assessments

Students are evaluated on Start Here Assignments, Programming Assignments, Final Project, Final Exam, and Final Reflective Assignment.

#### Start Here Assignments

During the first week of the course, you must complete the Start Here Assignments (sample assignment and entry quiz). These assignments will also be used for attendance verification. If you do not complete the assignments by the due date (8/16/2024), you will be dropped from the class.

#### Programming Assignments

Students will be assigned a number of mini-projects and/or programming questions to answer. All assignments must be submitted using Brightspace/D2L by the time announced in Brightspace/D2L.

#### Final Project

Students must finish their project independently. Students are not allowed to plagiarize others' works. Sharing code is not allowed. Late submission of the project will not be accepted.

#### Final Exam

There will be one comprehensive final exam. Students must finish the final exam independently. Students are not allowed to collaborate on the final exam. The exact test date will be announced in the lecture ahead of time and is determined by how the class proceeds. At least one full week's notice before the actual date of an exam will be given. Late submissions of the final exam will not be accepted.

#### Final Reflective Assignment

During the final phase of the course, you will complete a written assignment related to the course outcomes.

### Assignments Submission Policy

To obtain full credit for each assignment, project or exam, the student must submit the assignment by its deadline. If an assignment or project is submitted past the deadline, 10% per day penalty (weekends count as 2 days) will be applied to LATE submission. Students who submit an assignment more than one week late will receive a grade of zero on the assignment unless they have made prior arrangements with the instructor.

## CRITERIA FOR DETERMINING THE FINAL COURSE GRADE

Final grades are computed based on points earned.

### Grading Summary

- Start Here Assignments: 3%
- Programming Assignments: 48% (6 × 8%)
- Final Project: 23%
- Final Exam: 23%
- Final Reflective Assignment: 3%
- Total: 100%

### Grading Policy

| Letter Grade | Description       | Grading Scale |
|--------------|-------------------|---------------|
| A            | Excellent work    | 90 to 100     |
| B            | Good work         | 80 to 89.9    |
| C            | Satisfactory work | 70 to 79.9    |
| D            | Passing work      | 60 to 69.9    |
| F            | Failing work      | Below 60      |

## SECTION 4 - INSTRUCTOR-SPECIFIC POLICIES

### Communicating with Instructor

There are several ways to communicate with me. Students can contact me face-to-face during office hours, school email, D2L email, or online Teams by appointment. Especially, when you e-mail me using your MGA e-mail account, please make sure that your e-mail should have a meaningful subject line that reads "CSCI 1302-01: Short description of the request.

### General Expectations

1. It is expected that all students will participate in all activities.
2. Make sure to manage your time wisely throughout the semester and make sure your responses to communications and assignments are timely. If you are not able to participate in any assigned class activities, contact your instructor immediately.
3. Students are welcome to stop by my office during office hours or make an appointment to ask course related questions.
4. If you have trouble mastering a concept or have concerns related to the class, please feel free to contact me as necessary

## SECTION 5 - TENTATIVE COURSE SCHEDULE AND OUTLINE

The schedule below contains class activities, assignments, and deadlines. Note that the course schedule is "tentative" and subject to change based on student and/or pedagogical needs. All changes will be announced and posted on the course website.

| Date                      | Readings  | Activities   | In person meeting dates | Due Date |
|---------------------------|---|--|-------------------------|----------|
| Module 1<br>(8/14 – 8/16) | Syllabus and Orientation                          | Start Here Assignments<br>(Sample Assignment and Entry Quiz) | 8/16                    | 8/16     |
| Module 2<br>(8/17 – 8/23) | Chapter 1: Introduction to Computers and Programs | Read: Chapter 1  | 8/20<br>8/23            | -        |
| Module 3<br>(8/24 – 8/30) | Chapter 2: Input, Processing, and Output          | Read: Chapter 2<br>Assignment #1                             | 8/27<br>8/30            | 8/30     |
| Module 4<br>(8/31 – 9/6)  | Chapter 3: Decision Structures and Boolean Logic  | Read: Chapter 3  | 9/6                     | -        |
| Module 5<br>(9/7 – 9/13)  | Chapter 4: Repetition Structures                  | Read: Chapter 4<br>Assignment #2                             | 9/10<br>9/13            | 9/13     |
| Module 6<br>(9/14 – 9/20) | Chapter 5: Functions                              | Read: Chapter 5  | 9/17<br>9/20            | -        |

|                              |  |  |                |                           |
|------------------------------|--|--|----------------|---------------------------|
| Module 7<br>(9/21 – 9/27)    | Chapter 5: Functions   | Read: Chapter 5                        | 9/24<br>9/27   | -                         |
| Module 8<br>(9/28 – 10/4)    | Chapter 6: Files and Exceptions  | Read: Chapter 6<br>Assignment #3       | 10/1<br>10/4   | 10/4                      |
| Module 9<br>(10/5 – 10/11)   | Student Holiday (10/7 – 10/11)   |  | -              | -                         |
| Module 10<br>(10/12 – 10/18) | Chapter 7: Lists and Tuples  | Read: Chapter 7                        | 10/15<br>10/18 | -                         |
| Module 11<br>(10/19 – 10/25) | Chapter 8: More About Strings<br>Chapter 9: Dictionaries and Sets                        | Read: Chapter 8 and 9<br>Assignment #4 | 10/22<br>10/25 | 10/25                     |
| Module 12<br>(10/26 – 11/1)  | Chapter 10: Classes and Object-Oriented Programming                                      | Read: Chapter 10                       | 10/29<br>11/1  | -                         |
| Module 13<br>(11/2 – 11/8)   | Chapter 11: Inheritance  | Read: Chapter 10<br>Assignment #5      | 11/5<br>11/8   | 11/8                      |
| Module 14<br>(11/9 – 11/15)  | Chapter 13: GUI Programming  | Read: Chapter 13                       | 11/12<br>11/15 | -                         |
| Module 15<br>(11/16 – 11/22) | Chapter 14: Database Programming   | Read: Chapter 14<br>Assignment #6      | 11/19<br>11/22 | 11/22                     |
| Module 16<br>(11/23 – 11/29) | University Holiday (11/25 – 11/29)   |  | -              | -                         |
| Module 17<br>(11/30 – 12/4)  | Final Project (~12/4)<br>Final Reflective Assignment (~12/4)<br>Final Exam (12/5 ~ 12/7) | -                                      | 12/3           | 12/4<br>12/4<br>12/5~12/7 |

## SECTION 6 - COURSE EXPECTATIONS

### EXPECTATIONS

Online courses are not self-paced and regular participation in online courses is required and will be recorded by your instructor. Students are expected to complete all course assessments using D2L.

Online learning assumes a high level of maturity and professionalism. It is designed to make learning more convenient but no less rigorous. The lack of a formal meeting schedule in an online course can be liberating. It can also be demanding because you must determine when to make time for class. Self-discipline and good time management skills are necessary when taking an online course.

Please remember that you will spend as much or more time completing an online course as you would taking it in a traditional face-to-face/classroom format. The special circumstances of taking an online course demand regular and consistent participation. Be sure to pace yourself throughout the semester making sure your responses to communications and assignments are timely. If you are not able to participate in any assigned class activities, you must contact your instructor immediately.

The instructor is required to report “no-shows” or students who do not show up the first day of class. Therefore, all students enrolled in the course must verify their enrollment. This can affect financial aid and you may be dropped from the class. Your instructor will notify you as to how to verify your enrollment before the beginning of the term to ensure that you are not reported as a “no-show”.

### ATTENDANCE POLICY

Students whose number of absences is more than twice the number of class meetings per week may be assigned a failing grade for the course. Students who have more absences than the number of class meetings per week but less than twice the number of class meetings per week, will be penalized on the participation portion of the grade. Students who have absences which are less than or equal to the number of class meetings per week will not be penalized. This policy holds for face-to-face and hybrid courses.

Students that do not submit any work for more than 14 consecutive days in an online course or partially online course may be assigned a failing grade for the course.

The MGA policy on attendance is found in Section 5.04.05 of the Faculty Handbook and in the Academic Catalog (<https://mga.smartcatalogiq.com/2020-2021/Undergraduate-Catalog/Academic-Policy-and-Information/Course-Policies/Attendance-Policy>).

### CLASS BEHAVIOR EXPECTATIONS AND CONSEQUENCES FOR VIOLATIONS

Middle Georgia State University students are responsible for reading, understanding, and abiding by the MGA Student Code of Conduct.” Student Code of Conduct, Responsibilities, Procedures, and Rights are found at [http://www.mga.edu/student-affairs/docs/MGA\\_Student\\_Handbook.pdf#page=45](http://www.mga.edu/student-affairs/docs/MGA_Student_Handbook.pdf#page=45).

### STUDENT WITHDRAWAL POLICY

Students are encouraged to read the withdrawal policy found at <https://www.mga.edu/registrar/registration/drop-add.php> before dropping/withdrawing from the class.

Students who wish to withdraw from the University must complete the Withdrawal Form, obtaining the required signature from the advisor, and submitting it to the Office of the Registrar at the Macon campus or the administrative offices at

other campuses. Withdrawal is not complete until all withdrawal procedures have been properly executed.

<https://www.mga.edu/registrar/>

Students may withdraw from the course and earn a grade of “W” up to and including the midterm date, which occurs on **10/16/2024**. After this date students who withdraw will receive a grade of “WF.”

<https://www.mga.edu/academics/calendars/index.php>

### **POLICY ON ACADEMIC MISCONDUCT**

As a Middle Georgia State student and as a student in this class, you are responsible for reading, understanding, and abiding by [Middle Georgia State’s Student Code of Conduct](#).

Quoted directly from the Student Handbook, I believe it is important that you recognize and understand the following about plagiarism and cheating:

1. *Individuals will fulfill their academic responsibilities in an honest and forthright manner.*

Examples of prohibited behavior include but are not limited to: plagiarizing another's work (such as using another's phrasing, concepts or line of reasoning as your own without giving proper credit to the author or creator); submitting course assignments that are not your own; submitting the same paper in different classes without prior approval from both instructors; cheating (the use of any unauthorized means to gain academic advantage on assignments, laboratory reports or examinations); acquiring or using test materials without faculty knowledge; accessing any information, resource, and/or means of communication during an exam or assignment without specific authorization from the professor; failing to follow class policy; obtaining academic benefits through computer fraud or unauthorized access; engaging in academic fraud alone or with others; using material downloaded off Internet without proper citation; illicitly attempting to influence grading; failing to abide by test-taking procedures. The MGA Withdrawal Form, is available online or in the Office of the Registrar. The entire Student Code of Conduct is included in Middle Georgia State’s Student Handbook and is available online at <https://www.mga.edu/student-conduct/>

The penalty for academic misconduct is a grade of zero for the work involved and will be referred to the Dean of Students. Subsequent academic misconduct results in a failing grade for the course.

### **PLAGIARISM AND ACADEMIC INTEGRITY/HONESTY**

MGA uses a plagiarism prevention service to evaluate written work that students submit for this course. The papers will be retained by the service for the sole purpose of checking for plagiarized content in future student submissions. MGA’s Code of Conduct prohibits the use of any unauthorized assistance in completing any work for any course. This assistance includes using artificial intelligence platforms to generate any part or all of student submissions. The Code of Conduct is available at this webpage: <https://www.mga.edu/student-conduct/index.php>

### **MENTAL AND EMOTIONAL HEALTH SUPPORT**

Counseling Services is proud to be a part of BeWell@MGA, which provides students 24/7 access to counselors and mental health resources to help cope with minor issues to major concerns. More information is available on this webpage: <https://www.mga.edu/student-affairs/bewell/index.php>

### **ACCESSIBILITY SERVICES**

Students with a documented disability must work with MGA's Accessibility Services to arrange essential services relating to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards.

If a student is considering requesting accommodations, they should first contact Accessibility Services to discuss the process: <https://www.mga.edu/accessibility-services/index.php>

If a student needs course adaptations or accommodations because of a documented disability or chronic illness, the student should notify their instructor in writing and provide a copy of a current Student Accommodations Report (SAR), which is available only from Accessibility Services. Faculty cannot offer accommodations to any student without timely receipt of the official SAR document.

### **STUDENT SUCCESS CENTERS (SSC)**

Tutoring is available free of charge on all MGA campuses for currently enrolled students. SSC tutoring sessions may be scheduled online and face-to-face through the “Book an Appointment” link on the SSC website. Other services at the SSC include online academic workshops and a robust website with resources for academic assistance. The SSC locations also have computer workstations, printing, and Internet access. To view contact information, subjects tutored, and tutor availability, go to the SSC website at <http://www.mga.edu/student-success-center/>.

### **WRITING CENTER**

The MGA Writing Center is a free service that provides one-on-one consultations to assist students with all types of writing. Either in-person or via Teams, our consultants provide feedback and use different strategies to help students improve their writing.

Writing Center locations are open on the Macon, Cochran, Dublin, and Warner Robins campuses.

\*Please be aware that the Writing Center is closed during the summer semester.

### **Mathematics Academic Resource Center (MARC)**

The MARC has locations on the Macon and Cochran Campuses. They offer one-on-one peer tutoring in person and online for mathematics courses. Visit their webpage for more information and additional resources:

<https://www.mga.edu/computing/mathematics-statistics/marc/index.php>

### **CENTER FOR CAREER AND LEADERSHIP DEVELOPMENT**

Students have free access to career and professional development services through the CCLD. Virtual and in-person appointments can be scheduled in Macon, Cochran, or Eastman at [mga.joinhandshake.com](http://mga.joinhandshake.com). College-to-career resources include career exploration/assessments, job/internship/graduate school search assistance, career fairs, resume/interview prep, and professional/leadership development. Contact them at or visit <https://www.mga.edu/center-career-leadership-development/index.php>

### **DELAYED OPENING OR CLOSING OF THE UNIVERSITY**

If class is unable to occur for an opening or closing of the university, go to the online webpage of the course for additional instructions. If there are no additional instructions provided on the course homepage news section, then just plan to meet at the normal next regularly scheduled meeting for the course. Knight Alert can be used to check or

<https://www.mga.edu/police/alert/index.php>

### **HB 280 CAMPUS CARRY LEGISLATION**

In accordance with O.C.G.A. § 16-11-127.1, Middle Georgia State University recognizes that a lawful weapons carrier may carry concealed handguns on Middle Georgia State campuses, excluding restricted campus facilities. More information is

available at this webpage:

<https://policies.mga.edu/policy-manual/section-6-campus-affairs/6-10-weapons-on-campus/index.php>

## COURSE EXPERIENCE FEEDBACK SURVEY

Student perception surveys of a class and its instructor are administered online at the end of each term/session for all courses with five or more students. Students will receive an email containing a link to a survey for each course in which they are enrolled. All responses are anonymous.

## STUDENT RESPONSIBILITIES

*Students are responsible for reading, understanding, and adhering to all Middle Georgia State University student policies, including those linked on the [Syllabus Policy](#) page.*

## ACADEMIC MINDSET BELIEFS

The course activities/assignments in this course concerning the Academic Mindset shall contribute to your growth, self-efficacy, the relevancy of academic experience, and a sense of belonging. Throughout this course, growth mindset will be strengthened through activities/assignments by constant engagement. The following growth mindsets belief statements are the bedrock of this course and shall be acclaimed into mind by each student:

- I can strengthen my abilities through effort.
- The work in this course has value and purpose for me.
- I embrace new challenges.
- I will succeed if I put effort into my work.
- I will learn from success and failure to continue to improve.
- My effort and attitude are important to my future.

## ONLINE COURSE EXPECTATIONS

1. Students must immediately review the tentative course schedule (included as part of the syllabus) for the schedule of discussion activities, assignments, projects, and/or examinations.
2. Students are required to have access to a computer and the Internet.
3. All course materials (i.e. course syllabus, course content, the assignments and the schedule of activities, etc.) are posted in Brightspace D2L course/class web site.
4. Official institutional email (MGA or D2L) is used only for communication between the instructor and students. The instructor will endeavor to reply to your email queries within 12 hours and no more than 24 hours of their receipt, excluding weekends and holidays or during semester breaks. Private email accounts must not be used to communicate between the instructor and students.
5. Students must attend class if they are to be well prepared for the workplace. Online courses are no different from on-campus classroom courses in this regard. Therefore, online students are subject to the college's attendance policy. Please see the "Attendance Policy" in the college's catalog. For online classes, participation must be defined in a different manner. Student attendance in online courses is defined as active participation in the course as described in the course syllabus.
6. Online courses will, at a minimum, have weekly mechanisms for student participation, which can be documented using any or all the following methods: a graded discussion activity that is integral to student engagement and learning; a graded assignment/project/examination.

Your instructor will begin grading all assessments after the deadline and make the results available to you within one week after the due date for the assessment.

## ONLINE DISCUSSIONS AND POSTINGS

### *Expectations for Achieving Responsible Online Discourse*

One value we must share is respect for individuals - their experience and their ideas or social positions. We also share a genuine desire to learn from one another. In order to demonstrate these shared values, you are encouraged to consider how your tone, word choice, and content may affect other readers. Some ways people achieve responsible public electronic discourse include

- a) calling each other by name on the screen,
- b) using smiley faces =) to clarify meaning if a writer's tone might be ambiguous,
- c) clarifying with someone courteously before "flaming" back a quick response, and
- d) refraining from publishing or forwarding any questionable jokes or strong language that could offend various readers.

### *Guidelines for Online Discussions*

Not only respond to your instructor's questions, but carry on a dialogue with your classmates as well. This is a discussion, not just a question and answer session, and is one of the items that make a good online course and establishes community. If you only respond to your instructor's question it makes the discussion more of an "exam" rather than a dialogue.

Do not get caught up in "winning" the debate. We are here to learn the material, have fun, and to discuss matters of importance with others.

Read all postings from your classmates, not just those from the instructor. Sometimes future questions are based on the insights of your classmates.

When you reply to a post, don't just say "I agree". Give the person or person's name you are agreeing with and be sure to put the reply in the right thread. Also include a brief sentence or two summarizing what they said that you are agreeing with and then your views. You might also consider changing the subject line to reflect your posts. Make it easy for us to figure out who you are talking to and what you are talking about.

If you express an opinion, support it with material from our readings or other sources if applicable. When you quote, summarize, or paraphrase from the text, be sure to give the page number(s) -- This is important! **Count on checking the class website for assignments or discussions at least twice or more per week.**