School of Computing
Department of Information Technology

SECTION 1 - GENERAL COURSE INFORMATION

Course Title:	Application Development
Course Prefix and Number:	ITEC 2270 -04
Course CRN#:	82777
Semester & Session:	Fall 2024
Campus Location:	Online
Meeting Days:	Online
Meeting Time:	Online

INSTRUCTOR'S INFORMATION

Name:	Wanda Eanes	
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Office/Cell Phone Number:	478-550-1707	
Tentative Office Hours:	By	
	Appointment	

COVID-19 STATEMENT

TThe 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, 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 ITEC 2260 or CPSC 1301
Credit Hours:	3 hours
Course Description:	This course is an introduction to computer programming, logic, design and implementation. Topics include software design, documentation, coding methods, data types, data structures, functions, subroutines and program control structures.
Student learning outcomes:	At the completion of the course, students will be able to • Design, implement and administer effective IT solutions based on user needs via the design and implementation of assigned software programs, each of which meets a specification of requirements • Apply control structures to dictate the program's path of execution • Apply programming techniques to accept user input in a variety of formats (e.g. string, numbers, dates), processes the input using string or numeric variables and the appropriate functions and formats the results for output. • Apply program procedures and functions • Apply one and two-dimensional arrays and use array processing techniques to manipulate data. • Apply a custom class definition that contains property procedures, methods, and a constructor • Apply inheritance to derive a class from a base class. • Apply the programmatic skills of displaying, sorting, and updating a database. • Create a project containing multiple forms, standard modules and menus.
Topics:	• Sequence processing • Variable scope • Collections • Proper programming techniques • Code documentation • Database access • Object-oriented design and algorithms • Error Handling • Data structures and algorithms • Encapsulation inheritance
Required course materials:	Course materials will be available in D2L under Course Content.
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 |
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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 programming assignments, quizzes, midterm exam, and final project.

Homework Programming Assignments

Twelve (13) homework assignments are worth 130 points toward the student's overall course grade.

Quizzes

Twelve (5) quizzes are worth 100 points toward the student's overall course grade.

Midterm Exam

Midterm exam is worth 30 points. They are to be completed in D2L before the due date indicated in the syllabus. Please do not wait until the last minute.

Final Project

Final project is worth 40 points toward the student's overall course grade. Points will be given based on the creativity and completeness of the outcome. Project topic, timeline and evaluation criteria will be announced in D2L early November.

Assignments Submission Policy

To obtain full credit for each assignment or project, the student must submit the assignment by its deadline. If an assignment or project is submitted past the deadline, 50% penalty will be applied and another 10% penalty will be applied for each 24-hour delay. No late case studies, discussions, exams, or final projects will be accepted without prior approval of the instructor.

CRITERIA FOR DETERMINING THE FINAL COURSE GRADE
Final grades are computed based on total points earned.

Grading Summary (Total 260 pts)

- Homework Assignments (13 × 10 pts = 130 pts)
- Quizzes (5 × 20 pts = 100 pts)
- Midterm Exam (30 pts) - Final Project (40 pts)
- Participation (10 pts)

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

1. Students are not allowed to use any techniques, data structures or methods not taught in the chapter that the programs are assigned.

2. According to the class policy, students must finish their assignments independently. Students are not allowed to plagiarize others' works. Sharing code is not allowed.

3. To receive full credit for assignments, students are expected to submit their work by the deadline. Assignments submitted after the due date will receive a 10% reduction in score if submitted within 48 hours of the due date and will be assessed an extra 10% for each additional week the assignments are late. There are NO EXCEPTIONS, so plan accordingly.

4. Students must turn in code that compiles. Code that doesn't compile will get an automatic deduction of 10 percent.

5. Students are expected to document each program with their names, programming assignment numbers, variables and methods/functions with comments. A penalty of up to 10% will be assessed for missing documentation.

6. Students are expected to use good grammar and correct spelling in their documentation. A penalty of up to 10% will be assessed for such errors.

7

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
Week 1: Aug. 14-17	Syllabus and Orientation Module 2 – Input and Output	Introduction Entry Quiz Assignment #1	8/14	8/21
Week 2: Aug. 18-24	Module 3 – Variables and Data Types	Assignment #2	8/17 8/19	8/28
Week 3: Aug. 25-31	Module 4- Conditional Structures Module 5 - Strings	Assignment #3 Quiz #1 (Modules 2-3)	8/26 8/.28	9/4 Available 8/29-31
Week 4: Sep. 1-7	Module 6 - Loops	Assignment #4	9/4	9/11
Week 5: Sep. 8-14	Module 7 - Lists	Assignment #5 Quiz #2 (Modules 4-6)	9/9 9/11	9/18 Available 9/12-14

Week 6: Sep. 15-21	Module 7 - Tuples	Assignment #6	9/16 9/18	9/25
Week 7: Sep. 22-28	Module 8 - Functions	Assignment #7	9/23 9/25	10/2
Week 8: Sep. 29- Oct. 5	Module 9 – Files and Exception Handling	Assignment #8 Quiz #3 (Modules 7-8)	9/30 10/2	10/9 Available 10/3-5
Week 9: Oct. 6-12	Module 10 – Dictionaries	Assignment #9	10/7 10/9	10/16
Week 10: Oct. 13-19	Module 10 – Sets	Midterm Exam (Units 2 – 9)	10/14 10/16	Available 10/17-19
Week 11: Oct. 20-26	Module 11 – Classes and Objects	Assignment #10	10/21 10/23	10/30
Week 12: Oct. 27- Nov. 2	Module 12 - Inheritance	Assignment #11 Quiz #4 (Units 10-11)	10/28 10/30	11/6 Available 10/31-11/2
Week 13: Nov. 3-9	Module 13 - Recursion	Assignment #12	11/4 11/6	11/13
Week 14: Nov. 10-16	Module 14 - Polymorphism	Assignment #13	11/11 11/13	11/20
Week 15: Nov. 17-23	Module 15 – GUI Programming	Assignment #14 Quiz #5 (Modules 12-14)	11/18 11/20	4/23 Available 11/21-23
Week 16: Nov. 24-30	**Thanksgiving Break**			
Week 17: Dec. 1-7	**Final Project**	Final Project	12/2 12/4	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.

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 October 16. 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 POLICY

A plagiarism prevention service is used in evaluation of written work submitted for this course. As directed by the instructor, students are expected to submit or have their assignments submitted through the service in order to meet requirements for this course. The papers will be retained by the service for the sole purpose of checking for plagiarized content in future student submissions.

POLICY ON DISABILITY/ACCESSIBILITY ACCOMMODATIONS

Students seeking ADA accommodations must contact Middle Georgia State University Office of Accessibility Services in Macon at (478) 471-2985 or in Cochran at (478) 934-3023. https://www.mga.edu/accessibility-services/

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

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.**

HB 280 CAMPUS CARRY LEGISLATION

https://www.mga.edu/police/campus-carry.php

END OF COURSE EVALUATIONS

Student evaluations of faculty 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.