CIS 3303-110 Programming Logic and Design
January 13, 2020 – May 8, 2020
Online course

Professor Kay Addison
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Phone: 254-519-5469
Location: 323P Texas A&M campus, 3rd Floor

Office Hours
Monday - Wednesday 11am -2pm
By appointment

MODE OF INSTRUCTION AND COURSE ACCESS
This is a 100% online course. We will use the Canvas for exams, assignments, and grade reporting.

STUDENT-INSTRUCTOR INTERACTION
I will be checking my email (kayaddison1@tamuct.edu) twice daily during the week, in the evenings, and on most Saturdays and Sundays. I can meet face to face, on the phone, or online using web-conference tools. Please contact me to set up an appointment.

UNILERT
Emergency Warning System for Texas A&M University – Central Texas UNILERT is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in UNILERT through their myCT email account. Connect at https://www.tamuct.edu/departments/security/unilert.php to change where you receive your alerts or to opt out. By staying enrolled in UNILERT, university officials can quickly pass on safety-related information, regardless of your location.

COURSE OVERVIEW
This course introduces computer programming and problem solving in a structured program logic environment. Areas of study include the logic of decision-making, nested looping, multidimensional arrays, implementation of the structure theorem and Boolean algebra. Students will create and use structured flow charts, structured pseudocode, hierarchy charts, and decision tables to document logical problem solutions.

COURSE OBJECTIVE(S)
By the end of this course, students will be able to:

- Demonstrate an understanding of pseudocode by designing applications requiring the use of variables, conditional statements, loops, and files.
- Demonstrate an understanding of flowcharts by designing applications requiring the use of variables, conditional statements, loops, and files.

- Demonstrate an understanding of structured programming by designing flowcharts by designing applications using this technique.

COURSE REQUIREMENTS

- For each programming assignment, create a folder with your last name and the name of the assignment (i.e. Addison_Programming_Assignment_1). The zipped folder must include pseudocode and flowchart for the assignment. The folder will also include the python file of the program. All programs must include the name of the programmer, the date, and a description of the program as comments. Instructions for the programming assignments will be posted in Canvas.
- There will be two projects assigned within the semester. Each project is worth 100 points. All projects must include pseudocode and flowchart each worth 50 points. Instructions for the projects will be posted in Canvas.

REQUIRED TEXTBOOK
Starting Out with Python, 4th ED ISBN: 978-0134444321
Author: Tony Gaddis
Publisher: Pearson Education
ISBN: 978-0134444321

REQUIRED READING
The student is expected to read and review all material presented in the assigned chapter prior to class.

GRADING CRITERIA RUBRIC AND CONVERSION

Criteria	Points
Quizzes	200 points
Programming Exercises	200 points
Flowcharts	100 points
Psuedocode	100 points
Projects	200 points
Midterm	100 points
Final	100 points

Grade	Points
A	900-1000
B	800-899
C	700-799
D	600-699
F	Below 600

POSTING OF GRADES
- All grades will be posted in Canvas.
- All assignments will be graded within 2 weeks of the due date.
- ****Note:** All late assignments will lose 25 points per late day.

- ****Note:** All due dates are to be taken as midnight of the posted day.
- ****Note:** Grading criteria are subject to change at the discretion of the instructor.

COURSE CALENDAR 2020			
These dates are subject to change at the discretion of the instructor.			
Week	**Date**	**Reading Assignment**	**Assignment Due**
Week 1	1/12	• Chapter 1: Introduction to Computers and Programming • Chapter 2: Input, Processing, and Output • Appendix A Installing Python • Project 1 Requirements	Due Date: 1/19 Quiz 1 Programming Exercise
Week 2	1/20	Chapter 3: Decision Structures and Boolean Logic	Due Date: 1/26 Programming Exercise
Week 3	1/27	Chapter 4: Repetition Structures	Due Date: 2/2 Quiz 2 Programming Exercise
Week 4	2/3	Chapter 5: Functions	Due Date: 2/9 Quiz 3 Programming Exercise
Week 5	2/10	Chapter 6: Files and Exceptions	Due Date: 2/16 Programming Exercise
Week 6	2/17	Chapter 7: Lists and Tuples	Due Date: 2/23 Quiz 4 Programming Exercise
Week 7	2/24	Review Chapters 1-7	
Week 8	3/2	Midterm	Midterm Project 1 Due
	3/9	Spring Break	
Week 9	3/16	Project 2 Chapter 8: More About Strings	Due Date: 3/22 Quiz 5 Programming Exercise

Week 10	3/23	Chapter 9: Dictionaries and Sets	Due Date: 3/29 Quiz 6 Programming Exercise
Week 11	3/30	Chapter 10: Data Management Layer Design Classes and Object-Oriented Programming	Due Date: 4/5 Quiz 7 Programming Exercise
Week 12	4/6	Chapter 11: Inheritance	Due Date: 4/12 Quiz 8 Programming Exercise
Week 13	4/13	Chapter 12: Recursion	Due Date: 4/19 Quiz 9
Week 14	4/20	Chapter 13: GUI Programming	Due Date: 4/26 Quiz 10
Week 15	4/27	Review Chapters 8 - 13	Due Date: 5/3 Project 2 Due
Week 16	5/4		Due Date: 5/8 Final Exam

INSTRUCTOR POLICIES	
Copyright Notice	Students should assume that all course material is copyrighted by the respective author(s). Reproduction of course material is prohibited without consent by the author and/or course instructor. Violation of copyright is against the law and Texas A&M University-Central Texas' Code of Academic Honesty. All alleged violations will be reported to the Office of Student Conduct. Copyright. 2019 by Kay Addison at Texas A&M University-Central Texas, COBA; 1001 Leadership Place, Killeen, TX 76549; **254-519-5469**); kayaddison1@tamuct.edu Logon to **https://tamuct.blackboard.com** to access the course. Username: Your MyCT username

	(xx123 or everything before the "@" in your MyCT e-mail address) Initial password: Your MyCT password
	Check browser and computer compatibility by using the "Test Your Browser" button, found in the "Check Your Browser" module on your Blackboard dashboard, once you have logged in. **Technology Support.** For technology issues, students should contact Help Desk Central. 24 hours a day, 7 days a week:
	Email: helpdesk@tamu.edu Phone: (254) 519-5466 Web Chat: http://hdc.tamu.edu
	When calling for support please let your support technician know you are a TAMUCT student.
	For issues related to course content and requirements, contact your instructor.
COURSE AND UNIVERSITY PROCEDURES AND POLICIES	
Drop Policy	If you discover that you need to drop this class, you must go to the Registrar's Office and complete a Drop Request Form. Professors **cannot** drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the University Calendar for which the form must be returned, completed and signed. Once you return the signed form to the Registrar's Office and wait 24 hours, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid.
Academic Integrity	Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the

	abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.
Access & Inclusion	At Texas A&M University – Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to an education that is barrier-free. The Office of Access & Inclusion is responsible for ensuring that students with a disability enjoy equal access to the University's programs, services and activities. Some aspects of this course or the way the course is taught may present barriers to learning due to a disability. If you feel this is the case, please contact Access & Inclusion at (254) 501-5831 in Warrior Hall, Ste. 212. For more information, please visit their website at https://www.tamuct.edu/departments/access-inclusion/ Any information you provide is private and confidential and will be treated as such.
Tutoring	Tutoring is available to all TAMUCT students, both on-campus and online. Subjects tutored include Accounting, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.
	If you have a question regarding tutor schedules, contact information, need to schedule a tutoring session, are interested in becoming a tutor, or any other question, contact Academic Support Programs at 254-519-5796, or by emailing Kim Wood at k.wood@tamuct.edu
	Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online tutoring platform that enables TAMUCT students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in Mathematics, Chemistry, Physics, Biology, Spanish, Calculus, and Statistics. To access Tutor.com, click on https://www.tamuct.edu/departments/academicsupport/tutoring.php
University Writing Center	Located in 416 Warrior Hall, the University Writing Center (UWC) at Texas A&M University-Central Texas is a free workspace open to all TAMUCT students from 11am-6pm Monday-Thursday. Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available). Tutors are prepared to help writers of all levels and abilities at any stage of the writing process.
	While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By

	providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the University Writing Center is here to help!
	If you have any questions about the University Writing Center, please do not hesitate to contact Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu.
University Library	The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 72,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at TAMUCT are available through our website to help students navigate these resources. On-campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.
	Research assistance from a librarian is also available twenty-four hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources,
	and how to piece together research for written assignments.
	Our 27,000-square-foot facility on the TAMUCT main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our homepage: https://tamuct.libguides.com/