

PROGRAMMING LOGIC & DESIGN

CIS 3303 - 110, 10368

SPRING 2023

TEXAS A&M UNIVERSITY – CENTRAL TEXAS

COURSE DATES, MODALITY, AND LOCATION

This is a 100% online course and uses the A&M-Central Texas Canvas Learning Management System [<https://tamuct.instructure.com/>]. The course syllabus, schedule, supplemental readings, class announcements, presentations, learning modules, assignments, exams, and other course materials will be posted to Canvas. Course Dates: January 17, 2023 – May 12, 2023.

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Alex Burnett-Hayes

Phone: 737-444-7333 (Please use for emergencies only.)

Email: alex.burnett-hayes@tamuct.edu (Preferred method of communication.)

Office Hours

I am available to all students on an appointment basis. Please send an email to the above address to schedule an appointment. Meeting options are via WebEx or telephone. All appointments will be confirmed with an email sent from me to your Warrior email account. When sending an email, please utilize only your Warrior account. Emails sent from other providers will not be answered.

Student-instructor interaction

I will respond to all student emails within 24 hours of receipt.

WARRIOR SHIELD

Emergency Warning System for Texas A&M University-Central Texas

SAFEZONE. SafeZone provides a public safety application that gives you the ability to call for help with the push of a button. It also provides Texas A&M University-Central Texas the ability to communicate emergency information quickly via push notifications, email, and text messages. All students automatically receive email and text messages via their myCT accounts.

Downloading SafeZone allows access to push notifications and enables you to connect directly for help through the app.

You can download SafeZone from the app store and use your myCT credentials to log in. If you would like more information, you can visit the [SafeZone](http://www.safezoneapp.com) website [www.safezoneapp.com].

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To register SafeZone on your phone, please follow these 3 easy steps:

1. Download the SafeZone App from your phone store using the link below:
 - [iPhone/iPad](https://apps.apple.com/app/safezone/id533054756): [https://apps.apple.com/app/safezone/id533054756]
 - [Android Phone / Tablet](https://play.google.com/store/apps/details?id=com.criticalarc.safezoneapp)
[https://play.google.com/store/apps/details?id=com.criticalarc.safezoneapp]
2. Launch the app and enter your myCT email address (e.g., {name}@tamuct.edu)
3. Complete your profile and accept the terms of service

COURSE INFORMATION

Course Overview and Description

This course introduces computer programming and problem solving in a structured program logic environment. Study the logic of decision-making, nested looping, multidimensional arrays, implementation of the structure theorem and Boolean algebra. Utilize structured flowcharts, structured pseudocode, hierarchy charts and decision tables, in order to document logical problem solutions. The course focuses on business problem solving and does not count as a programming language. No prior programming experience is necessary.

Course Objective or Goal

Student Learning Outcomes

Students will gain an understanding of the following:

- 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 applications.

REQUIRED READING AND TEXTBOOK

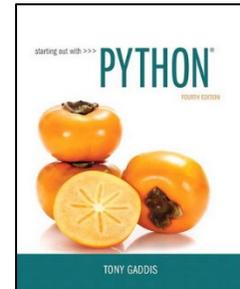
Title: Starting Out with Python (No REVEL or MyLab Programming)

Author: Tony Gaddis

Edition: 4th

Publisher: Pearson Education, Inc.

Paperback ISBN: 9780134444321



NOTE: Students will be provided with a free .pdf version of the textbook.
Purchasing a paperback version of the textbook is solely at the students' discretion.

COURSE REQUIREMENTS

Meet & Greet Discussion Forum: There will be one (1) Meet & Greet Discussion Forum to be completed in the A&M-Central Texas Canvas Learning Management System. For the Meet & Greet Discussion Forum students are required to make one (1) initial post (please only share what you are comfortable with) noting it would be nice if you welcomed your classmates with a response. The Meet & Greet Discussion Forum is worth a maximum of five (5) points for a maximum total of five (5) points.

Quizzes: There will be twelve (12) quizzes to be completed in the A&M-Central Texas Canvas Learning Management System. Each quiz (solely based on textbook material) includes 20 multiple-choice questions and/or True/False to be answered in a 25-minute timeframe. Each quiz includes two (2) attempts. If a student chooses to take a second quiz attempt, the higher of the two (2) grades will be recorded in the grade book. Each quiz is worth a maximum of ten (10) points for a maximum total of 120 points.

Video Group Discussion Forums: There will be three (3) video group discussion forums (to be completed individually) conducted in a group discussion forum environment to be completed in the A&M-Central Texas Canvas Learning Management System. Note: Students will be provided with recording software (for which they must register a free account). The group discussion forums will initiate with an instructor-posed question. Students must make an initial video post and a minimum of two written reply posts to their classmates. The reply post requirement necessitates a response to two (2) different members of the class. The Group Discussion Forums will be graded according to the Group Discussion Forum grading rubric (as it appears in Canvas). Note: The purpose of the group discussion forums is to heighten collective awareness and knowledge (noting there is no wrong answer to any question posed and further we are to respect any stated opinion). Continued conversations outside of the classroom are encouraged. All posts should be well thought out and substantive (noting a minimum word count will be enforced for the initial and reply posts). Each group discussion forum is worth a maximum of ten (10) points for a maximum total of thirty (30) points. *Note: The group discussion forums may introduce new material (beyond the course textbook) and thus require students to utilize established critical thinking and programming skills.*

Homework: There will be 12 homework assignments to be completed in the A&M-Central Texas Canvas Learning Management System. The homework assignments include a selection of the most relevant and engaging assets from each chapter and are further configured to cover all the chapter objectives. The purpose of the homework assignments is to solidify newly gained Python programming skills related to the course learning objectives and outcomes. Each homework assignment includes five (5) practical application programming questions (save Homework #11 which has three (3) questions). The homework assignments are not timed. Each homework assignment includes one (1) attempt. Each homework is worth a maximum of ten (10) points each for a maximum total of 120 points.

Group Programming Exercises: There will be four (4) group programming exercises (to be completed individually) conducted in a group environment to be completed in the A&M-Central Texas Canvas Learning Management System. The programming exercises include one (1) attempt, are not timed, and contain four (4) questions each. Each group programming exercise is worth a maximum of ten (10) points each for a maximum total of forty(40) points. The group programming exercises are progressively more difficult than the homework requiring a team effort (leveraging collective knowledge). Note: Students will self-enroll in groups no later than the last day of the third week. The size of the groups will be determined by the instructor and is dependent on course enrollment. The instructor will inform the students of the group sizes no later than the end of the first week. Note: Students fully participating in the group programming exercises will not be penalized for those students not fully participating.

Data Camp Exercises – There will be one (1) Data Camp Exercises to be completed on the Data Camp platform as accessed through the A&M-Central Texas Canvas Learning Management System. Complete Data Camp Exercise instructions appear in Canvas. Note: The purpose of the Data Camp exercises is to allow students to express their new Python proficiency, as validated by a third party. Upon successfully completing the Data Camp Exercise, students will earn a certificate which they can include on their resumes, post on their social media profiles, and share with current or prospective employers. The Data Camp Exercise is worth a maximum of ten (10) points for a maximum total of ten (10) points.

Grading Criteria Rubric and Conversion

Required Activity		Quantity	Points	Total
Meet & Greet Discussion Forum	(1.54%)	1	5	5
Quizzes	(36.92%)	12	10	120
Video Group Discussion Forums	(9.23%)	3	10	30
Homework	(36.92%)	12	10	120
Group Programming Exercises	(12.31%)	4	10	40
Data Camp Exercise	(3.08%)	1	10	10
Total				325

Point Range	Letter Grade
325 – 292.5	A
292 - 260	B
259 – 227.5	C
227 - 195	D
194 - 0	F

Posting of Grades

Grades will be posted to the Canvas grade book as assignments are graded. This will typically be done once all students have submitted the assignment.

Grading Policies

All assignments must be submitted before the posted deadline. No late assignments will be accepted.

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COURSE OUTLINE AND CALENDAR

Week	Dates	Learning Materials	Deliverables
1	01/16 - 01/22	Syllabus Chapter 1 PPTs/Lecture Materials Chapter 1 Supplemental Videos	Meet & Greet Discussion Forum Self-Enroll in Groups for Programming Exercises Quiz #1 Homework #1
2	01/23 - 01/29	Chapter 2 PPTs/Lecture Materials Chapter 2 Supplemental Videos	Quiz #2 Homework #2
3	01/30 - 02/05	Chapter 3 PPTs/Lecture Materials Chapter 3 Supplemental Videos	Quiz #3 Homework #3
4	02/06 - 02/12		Group Programming Exercise #1 Video Group Discussion Forum #1
5	02/13 - 02/19	Chapter 4 PPTs/Lecture Materials Chapter 4 Supplemental Videos	Quiz #4 Homework #4
6	02/20 - 02/26	Chapter 5 PPTs/Lecture Materials Chapter 5 Supplemental Videos	Quiz #5 Homework #5
7	02/27 - 03/05	Chapter 6 PPTs/Lecture Materials Chapter 6 Supplemental Videos	Quiz #6 Homework #6
8	03/06 - 03/12		Group Programming Exercise #2 Video Group Discussion Forum #2
9	03/20 - 03/26	Chapter 7 PPTs/Lecture Materials Chapter 7 Supplemental Videos	Quiz #7 Homework #7
10	03/27 - 04/02	Chapter 8 PPTs/Lecture Materials Chapter 8 Supplemental Videos	Quiz #8 Homework #8
11	04/03 - 04/09	Chapter 9 PPTs/Lecture Materials Chapter 9 Supplemental Videos	Quiz #9 Homework #9
12	04/10 - 04/16		Group Programming Exercise #3 Video Group Discussion Forum #3
13	04/17 - 04/23	Chapter 10 PPTs/Lecture Materials Chapter 10 Supplemental Videos	Quiz #10 Homework #10
14	04/24 - 04/30	Chapter 11 PPTs/Lecture Materials Chapter 11 Supplemental Videos	Quiz #11 Homework #11
15	05/01 - 05/07	Chapter 12 Textbook Chapter 12 PPTs	Quiz #12 Homework #12
16	05/08 - 05/12		Group Programming Exercise #4 Data Camp Exercise #1

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Important University Dates

Please see the attached link for the A&M-Central Texas Academic Calendars, which track important deadlines and dates for the school year and semesters: <https://www.tamuct.edu/registrar/academic-calendar.html>

TECHNOLOGY REQUIREMENTS AND SUPPORT

This course will use Microsoft Office 365 software. As a University student, you can download the software at no cost. Please access this University link for download instructions: <https://tamuct.onecampus.com/task/all/office365-software>

Technology Requirements

This course will use the A&M-Central Texas Instructure Canvas learning management system. We strongly recommend the latest versions of Chrome or Firefox browsers. Canvas no longer supports any version of Internet Explorer.

Logon to A&M-Central Texas Canvas [<https://tamuct.instructure.com/>] or access Canvas through the TAMUCT Online link in my CT [<https://tamuct.onecampus.com/>]. You will log in through our Microsoft portal.

Username: Your MyCT email address. Password: Your MyCT password

CANVAS SUPPORT

Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select "Chat with Canvas Support," submit a support request through "Report a Problem," or call the Canvas support line: 1-844-757-0953.

For issues related to course content and requirements, contact your instructor.

ONLINE PROCTORED TESTING

Texas A&M University -Central Texas uses Proctorio for online identity verification and proctored testing. This service is provided at no direct cost to students. If the course requires identity verification or proctored testing, the technology requirements are: Any computer meeting the minimum computing requirements, plus web camera, speaker, and microphone (or headset). Proctorio also requires the Chrome web browser with their custom plug in.

OTHER TECHNOLOGY SUPPORT

For log-in problems, 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): [<http://hdc.tamu.edu>]

Please let the support technician know you are an A&M-Central Texas student.

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UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy

If you discover that you need to drop this class, you must complete the [Drop Request](#) Dynamic Form through Warrior Web.

[<https://dynamicforms.ngwebsolutions.com/casAuthentication.ashx?InstID=eaed95b9-f2be-45f3-a37d-46928168bc10&targetUrl=https%3A%2F%2Fdynamicforms.ngwebsolutions.com%2FSubmit%2FForm%2FStart%2F53b8369e-0502-4f36-be43-f02a4202f612>].

Faculty cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the Academic Calendar for which the form must be completed. Once you submit the completed form to the Registrar's Office, 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 drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity

Texas A&M University - Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. Texas A&M University -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, working with others in an unauthorized manner, 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 referred 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.

For more [information regarding the Student Conduct process](#), [<https://www.tamuct.edu/student-affairs/student-conduct.html>].

If you know of potential honor violations by other students, you may [submit a report](#), [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

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Academic Accommodations

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 a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university's programs, services, and activities. If you believe you have a disability requiring reasonable accommodations, please contact the Office of Access and Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and confidential and will be treated as such.

For more information, please visit our [Access & Inclusion](https://tamuct.instructure.com/courses/717) Canvas page (log-in required) [https://tamuct.instructure.com/courses/717]

Important information for Pregnant and/or Parenting Students

Texas A&M University - Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from U.S. Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit [Student Affairs](https://www.tamuct.edu/student-affairs/index.html) [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines](http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf) online, please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. Texas A&M University - Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

Tutoring

Tutoring is available to all Texas A&M University -Central Texas students, on a remote online basis. Visit the Academic Support Community in Canvas to view schedules and contact information. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Student success coaching is available online upon request.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, success coaching, or have any other question, contact Academic Support Programs at (254) 501-5836, visit the Office of Student Success at 212F Warrior Hall, or by emailing studentsuccess@tamuct.edu .

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables Texas A&M University -Central Texas students to log in and receive online tutoring support at no additional cost. This tool provides tutoring in over 40 subject areas except writing support. Access Tutor.com through Canvas.

University Writing Center

The University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free service open to all TAMUCT students. For the Spring 2021 semester, all services will be online as a result of the COVID-19 pandemic. The hours of operation are from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours Monday thru Thursday from 6:00-9:00 p.m. The UWC is also offering hours from 12:00-3:00 p.m. on Saturdays.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. 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. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

Students may arrange a one-to-one session with a trained and experienced writing tutor by making an appointment via [WConline](https://tamuct.mywconline.com/) [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC and/or need any assistance with scheduling.

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 85,000 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 A&M-Central Texas 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 24 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 Texas A&M University -Central Texas main campus includes student lounges, private study rooms, group workspaces, 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 [Library website](http://tamuct.libguides.com/index) [http://tamuct.libguides.com/index].

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OPTIONAL POLICY STATEMENTS

A Note about Sexual Violence at Texas A&M University -Central Texas

Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don't agree with their behaviors and tell survivors we will support them. Your actions matter. Don't be a bystander; be an agent of change. For additional information on campus policy and resources visit the [Title IX webpage](https://www.tamuct.edu/compliance/titleix.html) [<https://www.tamuct.edu/compliance/titleix.html>].

Behavioral Intervention

Texas A&M University-Central Texas cares about the safety, health, and well-being of its students, faculty, staff, and community. If you are aware of individuals for whom you have a concern, please make a referral to the Behavioral Intervention Team. Referring your concern shows you care. You can complete the [referral](https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=2) online [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=2].

Anonymous referrals are accepted. Please see the [Behavioral Intervention Team](https://www.tamuct.edu/student-affairs/bat.html) website for more information [<https://www.tamuct.edu/student-affairs/bat.html>]. If a person's behavior poses an imminent threat to you or another, contact 911 or A&M-Central Texas University Police at 254-501-5800.

OTHER POLICIES

The instructor reserves the right to modify the course syllabus during the semester for the benefit of the students.

The instructor reserves the right to supplement materials presented in the text with additional course material that may help the students better understand a topic(s).

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.

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