



## **CSCI, 233, 01W, Application Program Development**

COURSE SYLLABUS: Fall 2025

### **INSTRUCTOR INFORMATION**

Instructor: Derek Harter, Ph.D.

Office Location: Science 355

Office Hours: T, Th 8:00a – 11:00a (please e-mail for appointment)

University Email Address: Derek.Harter@tamuc.edu

Preferred Form of Communication: e-mail

### **COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

#### **Required:**

STARTING OUT WITH PYTHON Author: TONY GADDIS Edition: 5TH Published  
Date: 2021 ISBN: 9780136912330 Publisher: PEARSON

#### **Recommended:**

Operating System Concepts (2006). 7<sup>th</sup> Edition (or later). by A. Silberschatz and P. Galvin, John Wiley & Sons, Inc., ISBN 0-471-69466-5.

#### **Software Required**

PyCharm or Jupyter Lab – Community Edition is free.

### **Course Description**

Application Program Development emphasizes software building with the use of integrated development tools and software subsystems for commercial, file management and database applications. Learning activities include laboratory and online tasks to develop the knowledge and skills necessary to write effective computer programs for information system applications.

*The syllabus/schedule are subject to change.*

## **Student Learning Outcomes**

1. Acquire the skills to edit, test and implement software;
2. Develop programs to retrieve data from files for reports;
3. Learn programming constructs and develop programs that use numbers and other simple data types, strings, lists, functions or methods, and classes;
4. Design and develop user interfaces to collect and present data and information;
5. Develop code to catch exceptions and validate data to store in files and databases;
6. Create and work with a database and also build a GUI program

## **COURSE REQUIREMENTS**

### **Minimal Technical Skills Needed**

No prerequisites skills in Python are assumed, though the course does list COSC 1436 Programming I, as a prerequisite for this course.

### **Instructional Methods**

Combination of video and text lectures. Course materials will be posted on the D2L course page for reference.

### **Student Responsibilities or Tips for Success in the Course**

- Keep up-to-date with the weekly quizzes
- Complete the homework on time and
- Reach out to instruction for any questions and clarifications

## **GRADING**

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

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## Assessments

Weights of the assessments in the calculation of the final letter grade. Example:

Weekly Quizzes	25%
Assignment	25%
Two Midterm Exams	30%
Final Exam	20%
TOTAL	100%

All assessments will be conducted online, including the two midterm exams, the final exam.

10 Quizzes [Equally weighted], 10 Homework [Equally weighted]

## TECHNOLOGY REQUIREMENTS

### LMS

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

Zoom Video Conferencing Tool:

[https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom\\_Account.aspx?source=universalmenu](https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu)

## ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary

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use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

## **COMMUNICATION AND SUPPORT**

If you have any questions or are having difficulties with the course material, please contact your Instructor.

### **Technical Support**

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

### **Interaction with Instructor Statement**

Please use e-mail and through the MyLeoOnline course to ask questions and for help, and to set up additional appointments if needed. We may use some of the MyLeoOnline virtual classroom tools this semester for online class feedback sessions.

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### **Course Specific Procedures/Policies**

There will be no make up or extra credit for late assignments. You must turn in all assignments by the required due date, or notify the instructor with a valid reason for missing an assignment.

### **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

### **University Specific Procedures**

#### **Student Conduct**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx).  
<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

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Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

<https://www.britannica.com/topic/netiquette>

### **ETAMU Attendance**

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

### **Academic Integrity**

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures/

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course. Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism). Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

<https://inside.tamuc.edu/aboutus/policiesproceduresstandardsstatements/rulesprocedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

13.99.99.R0.10 Graduate Student Academic Dishonesty

<https://inside.tamuc.edu/aboutus/policiesproceduresstandardsstatements/rulesprocedures/13students/graduate/13.99.99.R0.10.pdf>

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## **Students with Disabilities-- ADA Statement**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

### **Office of Student Disability Resources and Services**

East Texas A&M University

Gee Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

## **Nondiscrimination Notice**

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

## **Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and ETAMU Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

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## COURSE OUTLINE / CALENDAR

Week	Content	Quizzes and Assignments
01	Intro to computers, programming, python basics, and installation, Python “Hello World”, Input and output processing	
02	Control structures and Boolean expressions	Quiz 1, Assignment 1
03	Repetition structures	Quiz 2, Assignment 2
04	Functions, Files, and Exceptions	Quiz 3, Assignment 3
05	Lists, Tuples, Dictionaries, and Sets	Quiz 4, Assignment 4
05	Midterm Test 1	
07	Strings and string manipulation	Quiz 5, Assignment 5
08	Classes and OOP, Inheritance	Quiz 6, Assignment 6
09	Recursion	Quiz 7, Assignment 7,
10	GUI Programming	Quiz 8, Assignment 8
11	Midterm Test 2	
12	Database Programming	Quiz 9, Assignment 9
13	API development using Flask, Django	Quiz 10, Assignment 10
14	Final Preparation Week	
15	Final Exam	

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