



## **BUSA 523: Business Analytics Programming COURSE SYLLABUS: SUMMER 2026**

**Instructor:** Dr. Zaki Malik

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Please use emails to ask me questions, and use BUSA-523 in the subject line of the email. This is the fastest way to reach me.

### **COURSE INFORMATION**

#### ***Course Modality***

- Online - Recorded (No LIVE Classes)

#### **No Required Textbook**

Python is open-source, and you can use any free book you can find online. However, if you ask me, the following is a very good resource.

#### **Python Crash Course: A Hands-On, Project-Based Introduction to Programming**

by Eric Matthews

ISBN-10: 1593276036      OR      ISBN-13: 978-1593276034

### **COURSE DESCRIPTION**

This course is designed to introduce business analytics programming in Python to students. Students will learn programming foundations, application development in Python, and how to integrate Python applications with business operations in this class.

### **COURSE OBJECTIVES**

Upon successfully completing this course, students will be able to “do something useful with Python”.

- Identify/characterize/define a problem
- Design a program to solve the problem
- Devise comparable program designs
- Create executable code
- Read most Python code
- Write basic tests

- Be able to work in a team environment and come up with a unified data analytics solution
- Show how one program can be executed in multiple ways

## GRADING

### Labs & Homeworks (A Maximum of 50 Points)

Multiple Labs and Homeworks will be given every week during the summer semester.

### Projects (A Maximum of 50 Points)

1 project will be given during the semester. Please note:

- Project is very important to your final grade! Please be sure to complete and submit project by the deadline.
- The Project will involve more of the Data Analytics part (e.g. Linear Regression, Cluster Analysis etc).

### Final Grade

At the end of this semester, if your total is between 90 and 100, you will get an A; if it's between 80 and 89, you will get a B, and so on. **Please note that the actual points will be used to calculate your final grade.** No curving will be used in this class.

Points	Grade
90-100	A
80-89	B
70-79	C
60-69	D
below 60	F

## TECHNOLOGY REQUIREMENTS

You will need to install Python and a suitable editor (like Geany).

## COMMUNICATION AND SUPPORT

If you ask me questions by emails, I will reply within 48 hours. However, I usually answer them much faster.

**If you have questions about software operations, please make sure to include the screenshots of the issues in the emails.**

All assignment due dates, deadlines, and exam time are central time in the United States.

## COURSE AND UNIVERSITY POLICIES

### University Specific Procedures

### Students with Disabilities

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**

Gee Library- Room 132

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

Fax (903) 468-8148

[StudentDisabilityServices@etamu.edu](mailto:StudentDisabilityServices@etamu.edu)

### **Student Conduct**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See *Code of Student Conduct from Student Guide Handbook*).

Texas A&M University-Commerce 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

13.99.99.R0.10 Graduate Student Academic Dishonesty

### **Campus Concealed Carry**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce 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 A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to (<http://www.etamu.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>) and/or consult your event organizer). Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

## **TENTATIVE COURSE OUTLINE**

<b>Week</b>	<b>Topic(s)</b>	<b>Chapter</b>
1	Class Introduction	Chapter 1

	Getting Started / Software Installation	
1	Variables	Chapter 2
2	Lists Working with Lists & for Loop	Chapter 3 Chapter 4
2	If Statements	Chapter 5
2	Dictionaries	Chapter 6
3	User Input and while Loop	Chapter 7
3	Functions	Chapter 8
4	Classes	Chapter 9
4	Files and Exceptions	Chapter 10
4	Data Visualization	Chapter 15-17
4	Introduction to Data Analytics in Python	Notes
<b><u>4</u></b>	<b>E X A M</b>	<b>Comprehensive (No Notes Materials)</b>

**Note:**

Weekly contents with an \* in the calendar above are supplemental knowledge. They will not appear in quizzes or the final exam. You only need them for the projects.