

The Counseling Center at East Texas A&M, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel



ENGR 2304 Computing for Engineers

COURSE SYLLABUS: FALL 2026

INSTRUCTOR INFORMATION

Instructor: Burchan Aydin, Ph.D.

Office Location: AG/IT 222 (*Engineering and Technology Building 2nd floor*)

Office Hours: Tuesday and Thursday 8:30 a.m. to 11:30 a.m.

Office Phone: 903-886-5174

Office Fax: 903-886-5690

University Email Address: burchan.aydin@etamu.edu

Preferred Form of Communication: e-mail

Communication Response Time: within few hours

COURSE INFORMATION

Course Schedule and Location:

Section 01 Monday and Wednesday 12:30 p.m. to 1:45 p.m.

Room: AGET 118A

Section 02 Tuesday and Thursday 12:30 p.m. to 1:45 p.m.

Room: AGET 118A

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required: No textbook. Instructor will provide handouts as needed.

Software Required

MS Excel (any version), Python

Course Description

The purpose of this class is to introduce students to the fundamentals of how to

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identify, formulate and analyze problems based on the knowledge of mathematics, science and engineering by using modern computing techniques. Concepts gained will pave the way to more advanced problem framing and selection of appropriate programming computing approaches. Prerequisite: MATH 2413.

Student Learning Outcomes

Upon satisfactory completion of the course, the student shall be able to:

- **SLO#1** Use Excel to organize data, apply formulas, and perform basic data analysis.
- **SLO#2** Create clear and informative data visualizations using Excel and Python.
- **SLO#3** Use Excel to implement iterative methods for solving simple engineering problems.
- **SLO#4** Write basic Python programs that use variables, control structures, and user-defined functions.
- **SLO#5** Apply Python programming skills to solve and analyze mathematical or engineering problems.
- **SLO#6** Utilize PyCharm and Jupyter Notebook integrated development environments (IDE)

COURSE REQUIREMENTS

Assessments

Students' learning will be assessed via assignments, quizzes, and exams. Specific format and requirements of each assessment will be provided when it is posted on the course webpage at D2L Brightspace.

Tentative days for the assessments can be found on the course calendar at the end of this syllabus. Specific posting days, and due dates of assessments will be announced by the instructor in advance.

Minimal Technical Skills Needed

Working knowledge and basic skills using MS. Word.

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Grading

Point Distribution

Assessment Type	%
Homework	10
Quizzes	20
Participation and Attendance	5
Midterm 1	20
Midterm 2	20
Final Exam	25
Total	100

Based on the points received, the grades will be determined according to the criteria below.

Grade Criteria

A	B	C	D	F
100 - 90	89 - 80	79 - 70	69 - 60	59 - 0

- ✓ Late assignments will incur a 20% penalty if submitted within 1 day of the due date but will not be accepted after 24 hours unless the student has obtained prior approval for a valid excuse before the due date.
- ✓ Make-up exams or quizzes are permitted only if the student notifies the instructor before the exam date and provides a doctor's note with an acceptable health-related excuse. Family emergencies are not accepted as reasons for make-up exams.
- ✓ Participation and attendance: No points will be deducted for up to 2 absences. Any absences beyond 2 will result in grade deductions in this category. Repeated lateness to class sessions will also result in deductions.
- ✓ Any student with more than 7 unexcused absences will receive an "F" in this course. The instructor records attendance for each class session.

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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

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

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.

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 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:

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

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

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- ✓ Make-up exams or quizzes are permitted only if the student notifies the instructor before the exam date and provides a doctor's note with an acceptable health-related excuse. Family emergencies are not accepted as reasons for make-up exams.
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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>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: [Netiquette](http://www.albion.com/netiquette/corerules.html)
<http://www.albion.com/netiquette/corerules.html>

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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.

Undergraduate Academic Dishonesty 13.99.99.R0.03

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

Graduate Student Academic Dishonesty 13.99.99.R0.10

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

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

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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

Velma K. Waters Library Rm 162

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

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: [Office of Student Disability Resources and Services](http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/)

<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 East Texas A&M 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-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

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East Texas A&M-Commerce Supports Students' Mental Health

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COURSE OUTLINE / CALENDAR

ENGR 2304_01E (M-W Section)

Week's starting day	Topic	Assessments
		Specific dates will be announced at least a week in advance
Aug 24	• Introductions and Course overview • Introduction to Excel • Graphing with Excel	
August 31	• Graphing with Excel • Excel Functions	
Sep 7	• Sept 7th, Labor day No class • Excel Functions	
Sep 14	• Excel Functions	HW 1
Sep 21	• Excel Functions • Pivot Tables	Quiz 1
Sep 28	• Pivot Tables • AI for EXCEL	Midterm Exam 1
Oct 5	• Introduction to Python, PyCharm, and Jupyter Notebook • Oct 8-9 FALL Break No class	
Oct 12	• Python Data Types: Numbers, strings, lists, dictionaries	
Oct 19	• Python Data Types: Numbers, strings, lists, dictionaries	HW 2
Oct 26	• Logical Expressions, IF statements, Logical Operators	
Nov 2	• Functions	Quiz 2
Nov 9	• Data Visualizations, Numpy, Matplotlib Libraries	Midterm Exam II
Nov 16	• Programming Applications	HW 3
Nov 23	• Programming Applications	
	Nov (25-26-27) Thanksgiving Break, Campus Closed	
Nov 30	• Programming Applications	Quiz 3
Dec 7	• Final Exam Week	Final Exam

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ENGR 2304_02E (T-R Section)

Week's starting day	Topic	Assessments
		Specific dates will be announced at least a week in advance
Aug 20	• Introductions and Course overview • Introduction to Excel	
Aug 24	• Introductions and Course overview • Introduction to Excel • Graphing with Excel	
August 31	• Graphing with Excel • Excel Functions	
Sep 7	• Sept 7th, Labor day No class • Excel Functions	
Sep 14	• Excel Functions	HW 1
Sep 21	• Excel Functions • Pivot Tables	Quiz 1
Sep 28	• Pivot Tables • AI for EXCEL	Midterm Exam 1
Oct 5	• Introduction to Python, PyCharm, and Jupyter Notebook • Oct 8-9 FALL Break No class	
Oct 12	• Python Data Types: Numbers, strings, lists, dictionaries	
Oct 19	• Python Data Types: Numbers, strings, lists, dictionaries	HW 2
Oct 26	• Logical Expressions, IF statements, Logical Operators	
Nov 2	• Functions	Quiz 2
Nov 9	• Data Visualizations, Numpy, Matplotlib Libraries	Midterm Exam II
Nov 16	• Programming Applications • Nov (27-28) Thanksgiving Break, Campus Closed	HW 3
Nov 23	• Programming Applications	
Nov 30	• Programming Applications	Quiz 3
Dec 7	• Final Exam Week	Final Exam

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