Instructor:
Dr. Cherish Qualls
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(940) 565-3446
Office: F101F
Office Hours: TTh 12:30 – 2:00 PM or by appointment

Class Schedule:
Section 001: MW 2:00-3:20 PM, Room: NTDP F175
Section 002: MW 3:30-4:50 PM, Room: NTDP F175

Required Textbook:
Stormy Attaway

Catalog Course Description:
Programming for Mechanical Engineers. 3 hours. This course is designed to introduce engineering students to
problem solving, algorithm development and programming in MATLAB and Simulink. Examples of applications in
mechanical engineering will be given. This is an interactive course that is taught in a computer classroom.
Prerequisite(s): MEEN 1000, MATH 2700 (corequisite).

Course Objectives:
1. Demonstrate ability to create and manipulate vectors and matrices in MATLAB.
2. Demonstrate ability to create and utilize MATLAB scripts.
3. Demonstrate ability to understand and utilize logical statements and looping techniques.
4. Demonstrate ability to create and use data structures, file I/O functions.
5. Demonstrate ability to utilize plotting techniques to create useful plots.

ABET Criteria:
MEEN 2240 addresses the following ABET program outcomes:
1. an ability to identify, formulate, and solve complex engineering problems by applying principles of
   engineering, science, and mathematics

Disability Policy:
All reasonable accommodations will be made to facilitate special needs. If special accommodations are required, the
student must first meet with the staff of the Office of Disability Accommodation (ODA), (940) 565-4323. After
meeting with that office, please contact me to discuss what accommodations will be necessary. For more
information, see http://www.unt.edu/oda.

Attendance & In-Class Assignments:
In-class assignments will be collected each class day to encourage in-class participation and attendance.
Assignments will be MATLAB based. MATLAB assignments must be submitted through Canvas. There are no
make-ups for the in class assignments.

There is a strong correlation between grades and attendance in this class. Students who miss more than four
lectures have significantly lower grades than those who attend every lecture. Please plan on attending all lectures.
Homework:
Homework assignments will be assigned on Wednesdays. These homework assignments will be collected the following Wednesday. **Late homework is not accepted.** All homework assignments must be submitted to Canvas before the deadline. **Homework emailed to the instructor or TA will not be accepted.** Tentative homework due dates: 1/23, 1/30, 2/6, 2/13, 2/20, 2/27, 3/6, 3/13, 3/20, 3/27, 4/3, 4/10, 4/17, 4/24, 5/1

Exams:
Exam 1: Wednesday, February 20**
Exam 2: Wednesday, April 10**
** Dates are tentative
Final: Section 001: Monday, May 6, 1:30 – 3:30 PM
  Section 002: Wednesday, May 8, 1:30 - 3:30 PM

Grade Evaluation:
In-Class Assignments: 10%
Homework: 20%
Exam 1: 20%
Exam 2: 20%
Final Exam 30%

A – 90-100%  B – 80-89%  C – 70-79%  D – 60-69%  F - < 60%
There will be NO curve on the final grade. For example, 90% must be obtained in order to get an A, 89.8 will be a B. Grades are based solely on your performance on the assignments and exams. A student’s perceived effort is not taken into account.

It should be noted that extra credit will not be given at the end of the semester for individual students. Please do not request extra work at the end of the semester to boost your grade – the answer will always be no. It would be unfair to the rest of the students in the class if select individuals were given a chance to earn more points. Exams are made to be fair and allow everyone the opportunity to do well in the course if a student prepares for them appropriately.

Academic Dishonesty/Turnitin:
Cell phone and calculator use will not be allowed during exams. If a student is caught using a cell phone and/or calculator during an exam, a score of zero will be given for that assignment. There are no exceptions to this rule.

Students are expected to do their own work on homework and exams. If it is determined that a student is talking during an exam, copying off of other students’ papers, sharing papers etc., a score of zero will be given for that assignment. There are no exceptions to this rule.

All assignments will be submitted to Turnitin to check for copying. Turnitin compares submissions to online solutions manuals, previously submitted documents and to newly submitted documents. If there is more than an 85% similarity found with your submission and another source you will receive a zero for the entire assignment.

Students are not allowed to browse the internet during exams. The only website that can be accessed during the exam is Canvas. Students found to be looking at other documents/websites during exams will receive a score of zero.

Students caught violating this policy two times will automatically be given an F in the course.

All students caught cheating will be reported to Academic Integrity Office.
Classroom Procedure on Exam Days

On exam days:
- Seats will be randomly assigned by the instructor
- All phones, tablets, other electronic devices must be placed in a bag
- All bags must be placed at the front of the room
- Students will only be allowed to bring in pencils/pens for the exams. I will provide all other necessary items.
- Students will not be allowed to leave the room during exams. Exams will be collected and considered finished if a student leaves the room.

Canvas:
All homework assignments will be posted on Canvas. Each student is responsible for checking Canvas on a routine basis. At times announcements will be posted on Canvas regarding test dates, quizzes, and homework. In addition, your grades will be posted on Canvas. Please check these grades for accuracy and let me know if there is a discrepancy.

Use of Solutions Manuals/Online Resources like Chegg
It is common knowledge that solutions manuals to all widely-used textbooks are available online. I realize that students like to utilize these resources however, simply copying what is in the solutions manual is not beneficial to you. In fact, it is detrimental to your learning and grade.

To use these resources properly you should attempt all problems on your own. If you get stuck, work on it some more. You should only go to the provided solutions once you have obtained a solution of your own. You can then check your work and find your mistakes. Once you have found the mistakes, you should figure out why you made those errors and then learn how to fix them. Your goal in doing the practice problems is to learn how to apply the material learned in class to a variety of problems. The only way to do this is to work through problems on your own.

In the past students have used these resources and have had high homework grades only to do poorly on the exams. You must work through the problems on your own to fully grasp the material. The only way to learn programming is to write the code on your own.

Topics to be Covered (topics may or may not be covered depending on time available):
Variable initialization, scalar and array operations, scripts, file input/output functions, logical statements, loop statements, string manipulation, plotting functions.