Monroe Community College

Engineering Science and Physics Department

### Course Information Spring 2023

#### Course Title: ENR 261 Matlab Programming

**Instructor:**

Geoff Berl

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(585) 502-8484

**Office Hours:** I am available after class on Tuesdays by request. Otherwise, please contact me ahead of time to schedule an appointment.

**Required CAD Software:**

Matlab (provided on MCC engineering computers)

**Required Materials:**

A USB Memory Stick. All of your work for the course must be **saved on both** your memory stick and in your Github repository on www.github.com.

**Required Text:**

Essential Matlab for Engineers and Scientists, 7th Edition, Hahn and Valentine, Elsevier Publications,   
ISBN 9780081029978

*Actual version may change depending on availability*

**Course Description:**

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| Course Number: | http://www.monroecc.edu/icons/ecblank.gif | **ENR 261** |
| Course Title: | http://www.monroecc.edu/icons/ecblank.gif | **Matlab Programming** |
| Credits: | http://www.monroecc.edu/icons/ecblank.gif | **3 Credits** |
| Prerequisite(s): | http://www.monroecc.edu/icons/ecblank.gif | *Prerequisites: MTH 211; ENR 161 with a grade of C or better, or CSC 101* |

**Course Objectives:**

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| 1. | Apply structured programming techniques to develop software solutions to various engineering problems. |
| 2. | Differentiate between numerical and symbolic problem solutions. |
| 3. | Utilize a visual programming environment to create dynamic models of engineering systems. |

**Withdrawal Policy**:

Students who wish to withdraw from the course must complete the necessary paperwork and submit it to the Registrar by Friday, April 28, 2023.

A student who is absent from three or more quizzes may be withdrawn from the course by the instructor or receive a grade of F for the course.

**Attendance**

1. Students are responsible for all assignments and material covered in class **even if they are absent.**

1. Students must contact the instructor prior to or during the day that they are absent to receive the assignment that will be due when they return to class or lab.
2. Absence from class or lab is not a valid excuse for not handing in an assignment on time or taking a quiz. There will generally be either a quiz or a homework assignment due every class period so don’t plan to miss any classes.

**Classroom Conduct:**

**While the instructor is lecturing, students may not use a laptop or classroom computer unless instructed to do so by the instructor.** Students may only use computers for academic purposes. All recreational use of the computers such as playing games or surfing the Internet is prohibited on all computers that access the MCC computer network. Failure to abide by these rules may result in dismissal from the class and/or loss of the privilege of using the MCC network.

No open food or beverage containers are allowed near the computer equipment.

**The use of cellular telephones, iPods, earphones, or other electronic equipment is prohibited in the classroom.** Pagers and cellular telephones should be turned off during class except in emergency situations when the instructor has given the student permission to keep the phone or pager on.

**Grade Distribution**:

Homework and Class Work\* 40%

Quizzes\* 40%

Final Exam/Project 20%

\* The lowest quiz and homework grade will be replaced with the final exam/project grade if this benefits the student.

**Grade Scale**:

A >= 93% Excellent C >= 70% Average

A- >= 90% C- >= 67%

B+ >= 85% D+ >= 64%

B >= 80% Above Average D >= 60% Below Average

B- >= 77% D- >= 57% Minimum Passing

C+ >= 74% F <= 57% Failure

**Academic Honesty**:

Students must abide by the regulations and policies outlined in the MCC catalog/student handbook. Students may not give or receive assistance during a quiz. Copying the work of another student, or allowing a student to copy your work is considered cheating. Copying another person’s electronic file, or files found on the internet, and submitting them with your name without crediting the source is plagiarism. **Students must credit all sources that they received help from on homework assignments.** Students caught cheating or plagiarizing will be penalized and a letter outlining the incident will be sent to the Vice President of Student Services.

## Homework and Class Work

1. Homework problems will be graded on a 10 point scale.

No errors or omissions = 10 points (A)

Contains a minor error or omission = 9 points (A-)

Contains a major error(s) or omission = 8 or 7 points (B or C)

Passing = 6 points (D)

Unsatisfactory = 0 to 5 points (F)

1. **No late homework will be accepted.**
2. Your final exam grade will automatically replace the lowest grade for a homework assignment.
3. Students may consult with other students in completing homework assignments as long as all students do their own work. Copying another student’s file or files from the internet and submitting them as your own work will be considered plagiarism. **Students may not work together to submit a single homework assignment to count for both students.**
4. **Students must list the names of everyone who helped them in completing an assignment.** Failure to do this will be considered plagiarism and will result in a penalty in your grade.

6. The purpose of homework assignments is to gain technical expertise and to demonstrate the ability to meet strict deadlines. Be warned that computers can be unpredictable so you should never count on everything working perfectly. Disks may become unreadable, computers may crash, or you may not have access to a computer when you need it.

Good excuses will earn you nothing, but good time management will pay big dividends. It is therefore essential for you to get started early on assignments so that **when (not if)** things go wrong**,** you will have time to compensate for them.

7. Students may not email homework assignments to the instructor except in situations where the instructor has given the approval to do so prior to the due date of the assignment.

8. **Students are required to create backup files for all their work.** Students are required to store one copy of every file on their USB Memory Stick and one copy in their Github repository. The instructor will access your Github repository to grade your work.

9. When grading homework, a snapshot of your repository as of 11:59PM on the due date will be used to grade your work. Any changes made after that date will not affect your grade, as they will not be visible in the snapshot.

## Quizzes

1. Students will work individually on all quizzes and may not use notes, books, or computers.
2. **No make-up quizzes will be given.** Your final exam grade will automatically replace the lowest grade for a quiz.
3. Quizzes will usually include material covered in the reading assignment due that day and from the previous homework assignment. Your instructor will outline what will be included on each quiz. Students arriving to class after the quiz has been completed may not be allowed to take the quiz.

##### Final Exam

1. Students will work individually on the final exam/project.

2. The instructor will outline the topics to be covered on the exam/project.

**No make-up final exams/projects will be given except in extreme cases and the student follows all regulations outlined in the college catalog regarding final exams.**

**College Closing Policy**

If the College closes due to bad weather or other emergency, the following local radio and television stations will announce the closing. Please do not overload telephone lines by calling MCC or the media.

Radio Stations: WBBF, WBEE, WKLX, WDKX, WHAM, WVOR, WPXY, WMAX, WRMM, WCMF, SPORTSRADIO 990, WRQI, WXXI

Television Stations: WGRC, WHEC, WOKR, WROC

**College Learning Centers**

Monroe Community College has a number of Learning Centers at Brighton (for example, Accounting, Math, Nursing, Psychology, Writing, the Electronic Learning Center, etc.) and at Damon (the Integrated Learning Center).

Learning Centers are staffed with instructional personnel and may be equipped with computers to assist students. It is recommended that students use these Learning Centers to get additional assistance with concepts learned in the classroom. A brochure with details on Learning Centers is available: Brighton - the Brighton Learning Center, Bldg. 11, Room 106. Damon  - the Damon Integrated Learning Center in 4-130 and the Student Services Office on the fifth floor