CS 1972 Introduction to MATLAB Programming Syllabus
Fall 2019

Instructor: Dr. Peizhen Zhu
Office: CS 320
Office Hours: Monday and Wednesday 3:00pm-4:30pm
    (or by appointment)
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MISSOURI S&T
University of
Science & Technology

Meeting time and location:
Tue and Thur 3:30 - 4:20 Schrenk Hall G3

Text book: MATLAB. A practical introduction to programming and problem solving. 5th edition. Attaway. (See the textbook link on Canvas)

Additional reference book: Introduction to MATLAB for Engineers, William J Palm III

Course Objective: Programming design and development using MATLAB for non-CS majors. Strong emphasis placed on algorithmic problem solving methods using good programming practices. Introduction to built-in functions including plotting, as well as logical/relational/arithmetic operators, decision branching loops, functions, file I/O, data structures, output formatting, object oriented programming, and graph plotting.

1982 Lab: You MUST be dually enrolled in a section of CS 1982. Note that these are separate courses to enroll in, and they receive separate grades, but 1982 is coordinated with this course (1972), so it is necessary to be enrolled in both courses simultaneously. Also, this semester, to facilitate having sufficient time for lecture we will have lecture exams during lab times (see course schedule).

Attendance: Attendance is considered important. Class roll will be monitored and anyone with excessive skips will be dropped from the class. I expect you to attend every class since we may have in-class work to do. Those who missed class for any reason are responsible for all material covered, homework assigned, etc. in that class. Attendance will be used to adjust your final course grade that is close to the borderline.

Classroom Conduct: Please turn off cell phones, pagers, and the like, unless you are an emergency responder (EMT, fireman, etc.), in which case please let me know in advance.

Grading:
Clicker questions (in class) --5%
Homework -- 15 %
Exams -- 55 %
Programs -- 20 %
Mini project -- 5%

The grading scale is as follows:
90 - 100 %   == A
80 - 89.99 % == B
70 - 79.99 % == C
60 - 69.99 % == D
Below 60 % == F

As you can see above, your grade will be determined by your performance on homework, exams, project and regularly assigned programs (NOTE that these are separate from your CS 1982 (lab) programs.)

Exams are given in LAB, on the days listed in the course schedule (if these dates change, you will be informed at least one week in advance.) If you do not attend on a scheduled exam date without an accepted reason, you will receive a zero on that exam. No make-ups will be given unless the instructor is provided, as soon as possible, with proof of a serious illness/injury (need a certificate from the infirmary or a doctor), death or serious illness of a close family member, or official Missouri S&T business that cannot be rescheduled

Programs: Any assigned programs are due at 11:59pm of their respective due dates (see course schedule) and are to be submitted via Canvas. All code should be properly commented and documented. One lowest program score will be dropped. More details will be provided with every assignment.

Late programs: 10% penalty after the due date (the first 24 hours ;1st day); 30% penalty after the next 24 hours (2nd day); No credit after 2 days.

Homework: Homework is due at 11:59pm of their respective due dates (see course schedule) and is to be submitted via Canvas. One lowest scores will be dropped. Late policy is the same as for programs. More details will be provided with every assignment.

Making up missing programs/homework: School based academic or athletic events, medical problems, death in family, or comparable reasons will be acceptable reasons for late work for full credit. If possible, please present me paperwork from an official source indicating so, as soon as possible.
I want people to work on the homework, programs and project individually. You can talk to each other and give help, but this help should not take the form of letting other people copy your work.It is important that you under stand how to do all the problems on your own. Otherwise, you cannot do well on the exams.

Exam dates:
We will have exam 1 at the lecture time ,but exam 2 and exam 3 will be at the lab class time we normally meet in.
Exam 1 -- (see course schedule)
Exam 2 -- (see course schedule)
Exam 3 -- (see course schedule)

Final Exam: There will be a comprehensive final exam (date see course schedule). It is *** OPTIONAL ***. It can be used to replace a missing test score and/or raise your grade. The formula for your overall exam grade (OEG) is ... OEG = Max((E1 + E2 + E3) / 3, (E1 + E2 + E3 + 2 * Final - Min(E1,E2,E3))/4). This allows students who are happy with their pre-final grade to skip the final, and those that want to try to raise their grade may do so, without risk of lowering their pre-final grade.

Integrity/Ethics: DON'T CHEAT!! In response to a first offense, I will give you a zero (0) for the assignment and lower your semester grade one letter and notify your advisor and the Primary Administrative Officer. A second offense will get you ejected from the class. I expect you to do your own work. This means that you should not work with another student on your programs; I want to see your work. Do not work with others and turn in duplicates. Do not turn in work that you did not write (including material copied from the internet or other sources.) Don't try to fool me (or the graders.) You are free to ask questions of others and learn from your friends, but not to copy ideas and/or code. Do not let others copy from you.

Study Hints:
Read textbook in advance of class.
Do all homework listed
Attend Lecture/Lab and do programs.
Take advantage of Office hours.

Please be aware of the following university services and policies:

- **S&Tconnect:** The purpose of the S&Tconnect Early Alert system (see the S&Tconnect tab in Canvas) is to improve the overall academic success of students by improving communication among students, instructors and advisors; reducing the time required for students to be informed of their academic status; and informing students of actions necessary by them in order to meet the academic requirements in their courses.

- **Student Honor Code & Academic Integrity**: Academic integrity is very important in ALL S&T classes. Academic integrity matters to you, it matters to the discipline of Computer Science and it matters to future employers. You must pay attention to the Honor Code developed and endorsed by the Missouri S&T Student Council: the Honor Code can be found at http://stuco.mst.edu/honor-code. Encourage students to read and reflect upon the Honor code and its emphasis on HONESTY and RESPECT.Page 30 of the Student Academic Regulations handbook describes the student standard of conduct relative to the University of Missouri System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism or sabotage http://registrar.mst.edu/academicregs/index.html. Additional guidance for faculty, including the University's Academic Dishonesty Procedures, is available on-line at http://academicsupport.mst.edu. Other informational resources for students regarding ethics and integrity can be found online at http://academicsupport.mst.edu/academicintegrity/studentresources-ai.

- **Classroom Egress Maps:** Familiarize yourself with classroom and building exits. Classroom egress maps are posted on-line at: http://designconstruction.mst.edu/floorplan/

- **Disability Support Services:** If you have a documented disability and anticipate needing accommodations in this course, you are strongly encouraged to meet with the instructor as early as possible in the semester. You will need to request that the Disability Support Services staff send a letter to the instructor verifying your disability and specifying the accommodation you will need before the instructor can arrange your accommodation. Disability Support Services is located in 203 Norwood Hall, their phone number is 573-341-6655, and their E-mail is dss@mst.edu. You can also initiate the accommodation process at https://mineraccess.mst.edu

- **The Burns & McDonnell Student Success Center:** The Student Success Center is a centralized location designed for students to visit and feel comfortable about utilizing the campus resources available. The Student Success Center was developed as a campus wide initiative to foster a sense of responsibility and self-directedness to all S&T students by providing peer mentors, caring staff, and approachable faculty and administrators who are student centered and supportive of student success. Visit the B&MSSC at 198 Toomey Hall; phone: 573-341-7596; E-mail: success@mst.edu; facebook: https://www.facebook.com/SandTssc; web: https://studentsuccess.mst.edu/

- **Title IX Regulations**: Missouri University of Science and Technology is committed to the safety and well-being of all members of its community. US Federal Law Title IX states that no member of the university community shall, on the basis of sex, be excluded from participation in, or be denied benefits of, or be subjected to discrimination under any education program or activity. Furthermore, in accordance with Title IX guidelines from the US Office of Civil Rights, Missouri S&T requires that all faculty and staff members report, to the Missouri S&T Title IX Coordinator, any notice of sexual harassment, abuse, and/or violence (including personal relational abuse, relational/domestic violence, and stalking) disclosed through communication including but not limited to direct conversation, email, social media, classroom papers and homework exercises. Missouri S&T's Title IX Coordinator is interim chief diversity officer Neil Outar. Contact him (naoutar@mst.edu; (573) 341-6038; Temporary Facility A-1200 N. Pine Street) to report Title IX violations. To learn more about Title IX resources and reporting options (confidential and non-confidential) available to Missouri S&T students, staff, and faculty, please visit http://titleix.mst.edu.

- **LEAD Learning Assistance**: http://lead.mst.edu/

Syllabus Changes: I reserve the right to revise this syllabus as needed. If this occurs, you will be informed accordingly.