San José State University
College of Engineering
Department of Mechanical Engineering

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Eric Wertz

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: Friday 1700 (Tentative)

: Monday 0800 – 0940

: Via Zoom (see Canvas for Zoom link)

ENG 407

As a technology intensive course, ME30 requires regular access to the Internet and access to a laptop computer. Access to a laptop is required. Students will be expected to have their laptops available during the lectures. The exams will be conducted via computers that students will bring to the examination hall. Instruction will primarily target the Microsoft Windows Operating System, though some help may be provided for the Apple OS as well. Students with experience in Linux are welcome to utilize that platform, though even less technical support will be available.

Students without a laptop, please contact the Mechanical Engineering department to see if the department or the university can arrange for a loaner.

ME30 will utilize the following programs:

- Anaconda (Python 3.x, Jupyter Lab)
- Mu (CircuitPython)
- Adobe Acrobat (Converting files to PDF for submission)

Each student will be required to obtain a Circuit Playground Express (CPX) board from AdaFruit: https://www.adafruit.com/product/3333

Course material, such as the syllabus, handouts, copies of the slides, etc. may be found on Canvas, http://sjsu.instructure.com.

Assignments shall be turned into Canvas. Course announcements will also be distributed from the Canvas system. You are required to check Canvas regularly to keep abreast of the course announcements and any changes to the schedule.

Using a computer to solve engineering problems through programming and the use of engineering application procedures. Use of procedural and informational problem-solving methods and practices applied to software design, application, programming and testing. Lecture 1 hour/lab 3 hours. 2 units.

The goals of this course are to help you:

Exams 50% (25% per exam), Project 16%, Homework/labs 24% (2% per assignment) and Quizzes

ME 30 Course Schedule

The schedule below is a reasonable estimate of what will take place in the course and when. Make sure you turn on Canvas notifications, so whenever I (or the TAs) post an announcement, you get an email alert.

Notes

1. Reading assignments complement the lecture and allow you to quickly navigate to the chapter(s) in the textbooks that were covered in class. Readings are not mandatory and should be treated as a resource among all other online resources.
2. Following each lecture, I highly recommend that you review any notes you took in lecture along with the material I upload on Canvas. Read back through your notes, and fill in any gaps using the associated chapters in the textbooks or by doing a web search. There is a lot of Python material available online. Write down any question4ch asesterTc 0 Tr (i)-.5 (n a)-1.ksf10.8 (uryot)-4.6 (u)10.9rat