MECH 2340 – Dynamics

**Instructor**  
Drs. Angel Flores Abad, Eric MacDonald, Joel Quintana, John J. Bird, Louis J. Everett, Arifur R. Khan, Miguel A. Cedeno, Meagan Vaughan Kendall

**Office**  

**Office hrs**  
See Blackboard

**E-mail**  
See Blackboard

**Text**  
1. Sign in or create an account at learn.zybooks.com
2. Enter zyBook code: UTEPCS1320Fall2023
3. Subscribe: A subscription is $84. Students may begin subscribing on Jul 17, 2023 and the cutoff to subscribe is Dec 09, 2023. Subscriptions will last until Jan 14, 2024.

**Course description:** This course will introduce the subjects of Robotics, Autonomous Systems, Machine Intelligence, and Advanced Manufacturing. Each subject will be covered briefly by subject matter experts. The course will also introduce MATLAB programming to use for a mobile robot project.

**Course Outcomes:** At the end of this class the typical student will be able to define Robotics, Autonomous Systems, Machine Intelligence and Advanced Manufacturing and give examples of problems in each field. The student will have a working knowledge of basic MATLAB and be able to apply it to automate a mobile robot.

**Grading:**

- Zybook Exercises and Programs: 45%
- Project Mid-term: 15%
- Final project demonstration (aka. Final Exam): 25%
- Subject matter expert’s quizzes: 15%

**Homework:**  
Assigned on XyBook.

**COVID-19 PRECAUTION STATEMENT**

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let an instructor know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID-19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.

**Announcement:** If you feel you may have a disability which will make it difficult for you to carry out the work as outlined and/or if you need special accommodations/assistance due to a disability, please contact the Center for Accommodations and Support Services (CASS) at 747-5148, go to Room 106E Union, or email cass@utep.edu.