Professor: William Singhose  
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**Prerequisite:**  
ME3015 (System Dynamics & Control); Some Knowledge of Linear Algebra

**Scope:**  
Theory and applications of linear systems, state space representation (controllability, observability, realization), stability, feedback control, observers, optimal control and estimation, linear quadratic Guassian (LQG) control.

**Text:**  

**Additional References:**  

**Homework:**  
Homework will be assigned weekly. These assignments do not need to be turned in. Some of the homework problems will appear on the examinations.

**Computer Usage:**  
MATLAB will be used as a supplementary software program for this course. An open-ended final project will be assigned throughout the semester.

**Grading Policy:**  
Term Project 10%  
3 Quizzes 45%  
Final Exam 45%