

## **M E 543: Linear Systems and Controls**

### **MECHANICAL ENGINEERING**

Investigating how to model, analyze, and control linear dynamical systems such as a robotic arm or an inverted pendulum. Topics include state-space systems, dynamical systems, matrix exponential, eigenvalue tests, Lyapunov functions, controllability and observability.

3 Credits

#### **Prerequisites**

- Pre-requisite: Engr 330 or EI E 351 or EI E 431 or Graduate Standing.
- Prerequisite: Junior standing (60 hr).

#### **Instruction Type(s)**

- Lecture: Lecture for M E 543

#### **Subject Areas**

- [Mechanical Engineering](#)

