

## 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 El E 351 or El E 431 or Graduate Standing.
- Prerequiste: Junior standing (60 hr).

## Instruction Type(s)

• Lecture: Lecture for M E 543

## **Subject Areas**

<u>Mechanical Engineering</u>

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for guestions about the accreditation.

