Class Hours: T-Th 1:00 PM – 2:15 PM
Classroom: Marston 15
Professor: Doug Looze
Office: KEB 113F  Phone: (413) 545-0973  email: looze@ecs.umass.edu
Office Hours: T 4:00 PM - 5:00 PM, W 3:00 – 5:00
Course URL: https://moodle.umass.edu/ (login using OIT ID)
   The moodle page contains all the course material to date, including this syllabus, the problem sets, and the lecture notes.
Exams: There will be an evening 2-hour midterm exam from 7-9 PM (on Wednesday, November 1) and a take-home final exam due during exam week. Each exam will count as 35% of the final grade. All exams will be open book and open notes.
Homework: There will be approximately 7 homework assignments. Late homework will not be accepted. Homework will count as 30% of the final grade.
Prerequisite: Linear Algebra (undergraduate level).

Course Outline
Objectives: Provide a basic understanding of linear systems and the methodologies that are used to analyze and model such systems; provide the necessary background for advanced material in systems, control and communications.

1. Linear Algebra 3 Lectures
2. State variable models 3 Lectures
3. Solution of state variable models 8 Lectures
4. Controllability and Observability 8 Lectures
5. Realization 5 Lectures
6. Internal Stability 5 Lectures
7. Feedback 5 Lectures