

ES200, "Introduction to Systems Engineering"

1. Course Objectives:

- i) To foster an understanding of the tools and techniques of systems engineering
- ii) To build confidence in designing algorithms to solve a variety of problems
- iii) To provide and promote experience and proficiency with:
 - (1) C programming for microcontrollers
 - (2) MATLAB programming and capabilities
 - (3) Basic actuation (DC motors and servomotors)
 - (4) Serial interfacing
- iv) To provide insight into the engineering process
- v) To build community in the systems engineering major
- vi) To motivate the course of study in the systems engineering major

2. Textbook.

1. C: How to Program (6th Edition) **ISBN-13:** 978-0136123569
2. MATLAB Programming for Engineers (4th Edition) by Chapman **ISBN-13:** 978-0495244493