ES413 "Digital Control Systems"

1.) **Course Objectives**:

a.) To develop an understanding of the effects of sampling
b.) To gain a working knowledge of Z-transform theory
c.) To understand the similarities and differences between continuous time and discrete time systems
d.) To design, simulate, and implement digital control systems
e.) To design, simulate, and implement digital filters for aid in sensing and parameter estimation

2.) **Course Description:** Analysis, design and simulation of digital filters. Analysis, design and laboratory testing of digital controllers for continuous processes using digital and analog computers and servo system hardware.

3.) **Textbook.** *Control Systems Engineering,* by Norman S. Nise, 6th edition.

4.) **Credits**: 2-2-3