Signals & Systems for Control

This 16-hour self-paced seminar on DVD is taught from an Electrical Engineering perspective, and presents an integrated approach to the modeling and analysis of linear and nonlinear systems, and signal analysis. Derivation of mathematical models from first principles is described for a variety of physical systems. Time and frequency domain analysis are covered for continuous-time and discrete-time systems and signals.

The SSC seminar is recommended as refresher course for students interested in taking graduate-level courses in the systems and control area, particularly courses ME7236 and ME7384.

- Lectures include the following topics:
  - Discrete-time systems
  - State variable systems
  - System response, transfer functions and stability
  - Introductory control system ideas
  - Laplace and Z-transforms

Prerequisite: Linear differential equations

Ohio State University’s automotive engineering certificates include international collaboration with European partners, Swiss Federal Institute, ETH, and University of Stuttgart, as well as with Asian partner, Korean Advanced Institute of Science and Technology.

For detailed information on Ohio State University’s graduate-level automotive engineering certificates, visit our web site listed below to see video overviews for the 3 automotive certificates, prep seminars and credit courses.