

# SYSE6322 - Digital Control of Automotive Powertrain Systems

[SYSE 6322 \(MECH 6316\)](#) Digital Control of Automotive Powertrain Systems (3 semester credit hours) Digital control systems, discretization and design by equivalents. Input-output design and discrete-time state variable estimation and control. Introduction to various control problems in automotive powertrains. Application of digital control principles to automotive powertrains for internal combustion engine idle speed control and air-to-fuel ratio control. Prerequisite: A basic course in control systems at the undergraduate level. (3-0) T