

# SYSE 603

## INTRODUCTION TO SYSTEMS TEST AND EVALUATION

Offered in Spring as needed

*Prereqs: ENGR502 & ENGR531*

### DESCRIPTION

Test and evaluation of systems at both the component and systems levels to provide insights into how systems succeed or fail based on test methodologies.

### BENEFITS

Test and evaluation is the process by which a system or components are compared against requirements and specifications through testing. The results are evaluated to assess progress of design, performance, supportability, etc.

### COURSE OBJECTIVES

Students will discover how testing and evaluation is an important component within the systems engineering process.

Successful students will learn to:

- Apply/test evaluation processes in the systems engineering context
- Understand the different frameworks used to incorporate testing and evaluation into complex systems and projects
- Demonstrate test principles to determine what, how, where, and when to stop test and evaluation in systems
- Evaluate why systems succeed or fail
- Apply test/evaluation principles to a notional project
- Create test plans and documentation
- Optimize test strategies for better design, development, and production

