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