

SYSE 573

COST OPTIMIZATION FOR SYSTEMS ENGINEERS

Offered in Spring as needed

*Prereqs: ENGR502 & ENGR531 (or
instructor permission)*

DESCRIPTION

Techniques and strategies to respond to requirements, design decisions, and development decisions, while optimizing for cost at the organizational, program, and project level.

BENEFITS

Systems engineering is an interdisciplinary approach and means to enable successful systems. By focusing on what the customer needs, how it should function, defining the requirements, and then design synthesis, validation, and verification, real solutions to complex problems can impact every type of system.

COURSE OBJECTIVES

This course will fill an important gap for assuring cost optimization is used in complex system development.

Successful students will learn to:

- Identify the importance of cost optimization across all program phases
- Implement traditional approaches to cost estimation
- Differentiate outcomes in focusing on cost risk at the project, program, and enterprise level
- Apply cost optimization of supply source to decisions (make/buy) and of supply chain management

