

ENGR 502

ENGINEERING PROJECT AND PROGRAM MANAGEMENT

Offered every Fall; Spring of odd years; Summer of even years

DESCRIPTION

Engineering program management fundamentals, program planning and control strategies, risk assessment, work breakdown structures and costing options. Topics include requirements analysis, risk analysis, earned value, estimating and budgeting, different types of project networks and scheduling, and planning.

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

Students will practice the principles taught in the course by following a project of the individual student's choice. Each student will complete a project plan based on this project.

Successful students will learn to:

- Effectively apply project management processes
- Interact with customers and stakeholders
- Acquire a foundation of agile, theory of constraints, critical path project management, critical chain project management
- Understand total quality management and risk

