BENEFITS

Systems Engineering is an interdisciplinary approach and means to enable realization of 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

Topics include requirements analysis, risk analysis, earned value, estimating and budgeting, different types of project networks and scheduling, and planning. 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

INSTRUCTOR BIO

Ann H. Batchelor, Assistant Director of Colorado State University, Systems Engineering has extensive industrial experience in technical program management, systems engineering, production, manufacturing, lean engineering, life cycle management, test and analysis, transitioning technology into manufacturing, proposal management and technical writing. Experience includes 20 years in engineering management in the defense industry as chief scientist, systems engineer, Director of Engineering, and Director of Program Management. She is a past certified program management professional by the Project Management Institute (PMI), a Military Sensing Fellow (DOD Informational and Analysis Center for Military Sensing), industrial instructor on program management, and risk and opportunity management courses.