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

Explore real-world problems to develop a understanding of systems engineering life cycle processes and analytical techniques. Each student will complete a project based on a system or enterprise of her or his choice! Successful students will learn to:

- Develop analytical skills and optimization methods
- Broaden perspectives working with systems through all phases
- Analyze architecture issues associated with real-time systems, information assurance, networked enterprises, and virtual and physical architecture prototypes
- Learn models and tools for alternatives analysis and decision making
- Explore queuing theory and analysis
- Use detail design for reliability, maintainability, logistics, affordability

INSTRUCTOR BIO

Bill Wood has a 45 year background in the US Air Force and Aerospace industry, highlighted by work on a number of major classified and unclassified systems for the US Government. His technical foundation is in the areas of Astrodynamics and Software while his practical applications ranged from satellite constellation operations to large scale air combat control integration.

Dr. Peter M. Young hails from the United Kingdom and received his education at Oxford University, the University of Florida, and the California Institute of Technology, where he earned a Ph.D. He is currently a consultant for Woodward Governor Company and Spirae, Inc., as well as a director for both the Dynamic Systems and Controls Research Laboratory and the Systems and Controls Teaching Laboratory.