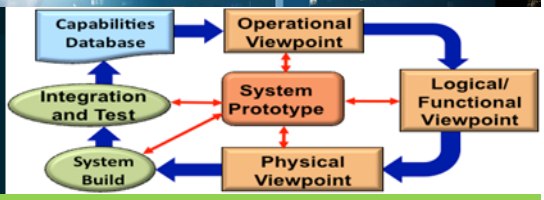
ENGR 667

Advanced Model Based System Engineering



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.

Spring 2019 Semester

Location: United Launch Alliance

Date: 1/28 – 5/13/2019 Mon 5:15—8 pm

Last date for registration: January 27 2019

https://www.online.colostate.edu/courses/ENGR/ENGR667.dot

COURSE OBJECTIVES

This is the second of a two course sequence in Model-Based Systems Engineering (MBSE). ENGR 567, the prerequisite Systems Engineering Architecture course, is directed to general systems engineers who want to learn the essentials of modern Systems Engineering (SE) practice. Students will continue with formal modeling of class projects started in ENGR 567.

Successful students will learn to:

- Develop an expert level of skill in creating, modeling, analyzing, and maintaining system and enterprise architecture
- Create MBSAP Viewpoints with structural, behavioral, data, services, and context implications
- Apply advanced systems architecture concepts

INSTRUCTOR BIO

Dr. Borky has been a practicing engineer for 51 years, both as an Air Force Officer and in the Aerospace and Defense industry. His expertise includes electronic devices, avionics systems, logistics, and systems engineering and architecture. He is a pioneer in the field of Model-Based Systems Engineering (MBSE) and has applied architecture-centric methods to a wide variety of systems, including tactical aircraft, unmanned air systems, command and control systems, and airborne and space borne sensor platforms. He has taught at the Air Force Institute of Technology, UCLA, Wright State University, and other institutions. He is an Associate Fellow of the American Institute of Aeronautics and Astronautics and a Life Senior Member of the Institute of Electrical and Electronic Engineers.

GRADUATE SCHOOL

Colorado State University