

SYSTEMS ENGINEERING CERTIFICATE

The *Systems Engineering Certificate Program* provides the key skills and knowledge essential for successful systems engineering in today's rapidly changing environment. Systems Engineering utilizes a combination of product development and service delivery fundamentals including project management techniques and keen business skills.

This 17 semester hour certificate is focused toward development and management of complex systems. This program focuses on practical applications of proven methods for eliciting customer needs and requirements, defining robust system architectures and designs, effectively verifying and validating the operation of the system that meet cost, schedule, and performance goals. All requirements must be completed within three (3) years after the student enrolls in the first course.

All courses in this certificate can apply to the B.S. in Computer Science Program with Information Science Concentration, if desired.

Chair: Seta Whitby

Certificate Program Manager: Seta Whitby

Required Courses

17 semester hours

Code	Title	Semester Hours
CMPS 370	Seminar	1
CMPS 375	Systems Analysis and Design	4
CMPS 392	Project Management	4
CMPS 410	Management Information Systems	4
CMPS 491	Systems Architecture	4
Total Semester Hours		17