SYSTEMS ENGINEERING
COLORADO STATE UNIVERSITY

Graduate Certificate - Systems Engineering Practice

Our graduate certificate in systems engineering practice is a flexible program that will introduce students to the systems engineering discipline through hands-on experience and applying systems thinking to the real-world problems.

About the Program

The applied focus of the courses in this degree builds skills that can be utilized immediately in current projects and prepares students for future career opportunities.

Certificate Curriculum (12 credits total):
- SYSE 501 - Foundations of Systems Engineering (3 cr.)
- SYSE 530 - Overview of Systems Engineering Processes (3 cr.)
- ENGR531 - Engineering Risk Analysis (3 cr.)

And one of:
- ENGR 502 - Engineering Project Management and Program Management (3 cr.)
- CIS 600A - Information Technology and Project Management (3 cr.)
- CIS 670 - Advanced IT Project Management (3 cr.)

Complete the program online or on-campus:
- Classes are offered in three formats: on-campus, synchronous online, or you can watch the recorded lecture later at a time that works best for you
- Both formats are the same certificate and same education experience - the only difference is how you access class

Apply your certificate to various industries:

Systems engineering
Aerospace engineering
Defense
Energy
Cybersecurity

Contact us today

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Advisor and Graduate Program Coordinator

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