

# Systems Engineering

Doctor of Philosophy (Ph.D.) in Systems Engineering



COLORADO STATE UNIVERSITY  
ONLINE

## Overview

The online Ph.D. in systems engineering is a competitive program for working professionals, offering a flexible study format and applicable material. Students are encouraged to problem-solve current issues faced by their employers as part of their studies.

Designed for senior management and top-level executives, CSU's highly selective online systems engineering Ph.D. program only accepts a handful of students each semester to maintain the integrity and quality of the student experience.

## What you will learn

In consultation with your advisory committee, you'll individually structure the systems engineering graduate program to fit your academic and research goals. Your Ph.D. experience culminates in a dissertation\* which serves to heighten research and knowledge in your area of interest, and demonstrates a solid foundation of systems engineering theory and practice, as well as a multi-disciplinary understanding of systems concepts.

## Topics of study

- Information technology and project management
- Systems engineering processes
- Engineering risk analysis
- Systems engineering architecture
- Simulation modeling and experimentation
- Dynamics of complex engineering systems

Review the Ph.D. curriculum [on the website](#).

The online Ph.D. in systems engineering offers the advantage of synchronous or asynchronous delivery, allowing you the flexibility to study when and where it works best for your situation, with options to:

- Watch and interact online while the lecture is happening live in class.
- Watch a recorded version online after work or on the weekend.

\*Dissertation may or may not require a campus visit.

## Delivery

Online; select courses have in-person attendance options

## Credits

72 credits

## Tuition

\$1085 per credit

- Includes [Student Services](#)
- [Fees](#) assessed separately
- [Financial aid](#) is available; eligibility determined on an individual basis

## Time frame

Varies based on intensity of study and previous coursework

## Completion requirements

- A minimum of 72 credits must be completed.
- Students with applicable master level degree earned with at least 30 credits:
  - 18 course credits required
  - Dissertation (24 cr.)
- Students with no applicable master level degree earned:
  - 39 course credits required
  - Dissertation (33 cr.)

## More info

[online.colostate.edu/degrees/systems-engineering-phd](https://online.colostate.edu/degrees/systems-engineering-phd)

## Contact

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# How to Apply

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## Application Deadlines

Fall Semester: **July 1**    Spring Semester: **November 1**

### 1 Review Admission Requirements

The complete [Systems Engineering Application Information Packet](#) provides detailed information regarding CSU's Systems Engineering graduate programs, minimum application qualifications, criteria for admission, and more.

- B.S. degree from a regionally accredited institution in engineering, mathematics, or a science discipline with a GPA of 3.0 or greater
- Basic Statistics
- Calculus I
- GRE test scores or waiver. Applicants who have earned a degree from a US institution qualify for a GRE score waiver. Please [contact the department](#) for waiver after your application is submitted and complete.

### 2 Secure a Faculty Advisor

### 3 Prepare Application Materials

Prepare the materials below and upload when you apply online.

- Three letters of recommendation
- Resume
- Statement of purpose

### 4 Complete Online Application

Complete the [online graduate application](#) and pay the nonrefundable application processing fee (payable online). As soon as you have completed the required information, please submit your application. Your application will not be reviewed until it is complete and all required materials have been received.

- Select 'Systems Engineering (College of Engineering) Ph.D.- Distance' when choosing the program of study

### 5 Request Transcripts

Request one official transcript of all collegiate work completed from every institution attended, whether or not you received a degree from those institutions. Transcripts from Colorado State University are not required. Official transcripts can either be mailed in or sent as e-transcripts.

Send e-transcripts to: [gradadmissions@colostate.edu](mailto:gradadmissions@colostate.edu)

Send paper copies to:  
Graduate Admissions  
Colorado State University – Office of Admissions  
1062 Campus Delivery  
Fort Collins, CO 80523-1062

## Check Your Application Status

View your [application status](#) at any time to ensure your application checklist is complete or to check on updates. Once your complete application, including supporting materials, is received, the department admission committee will review your application and promptly notify you of their decision.

## International Students

See [website](#) for test score and transcript requirements.