Overview
Content covers technical and management processes to systems design. Technical processes involve modeling and describing systems using a suite of tools to model behavior. This includes:

- Systems optimization
- Model-based systems engineering
- Utility Theory (ways of making decisions and understanding decision support tools)
- Lifecycle assessment
- Multidisciplinary optimization (MDO)
- Probabilistic design
- Verification/validation strategies

Requirements
There are two options for students pursuing the M.S. in systems engineering – Plan A (thesis option) or Plan B (project option).

- Minimum of 30 credits of graduate work in approved program of study.
- Minimum of 24 credits must be earned at Colorado State University, 21 of which credits at the 500-level must be earned after formal admission to the University.
- No more than two courses at the 400 level taken at Colorado State University are permitted.
- No more than two 500-level or higher graduate courses may be transferred from another accredited university.
- Electives or course substitutions must be approved by an academic advisor.

Plan A only
Electives or course substitutions must be approved by an academic advisor.

Plan B only
15 credits must be Systems Engineering courses, 12 credits of technical electives, and 3 credits of independent study (ENGR 695), or a comparable course with a minimum of 3 credits with approval of graduate advisor.

Contact
(970) 492-4898
online.colostate.edu/contact

Delivery
Online; select courses have in-person attendance options

Credits
30 credits

Tuition
$666-$985 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

More info
online.colostate.edu/degrees/systems-engineering
How to Apply
Master of Science (M.S.) in Systems Engineering

Application Deadlines
Fall Semester: July 1  Spring Semester: November 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 are required if all previous degrees were conferred by an institution outside of the U.S
- M.S. Plan A (thesis required) – 21 hours coursework with 9 credit hours of thesis work
- M.S. Plan B (project required) – 27 hours of coursework with 3 credit hours of project work
- For Plan A, a faculty advisor must be secured before admission to the program (the Systems staff will review application materials to determine faculty alignment). It is also the responsibility of the applicant to establish rapport with faculty in a professional manner once all application materials have been submitted.
- Plan B does not require an advisor prior to admittance

Prepare Application Materials
- Three letters of recommendation
- Resume
- Statement of purpose

Complete Online Application
Complete the online graduate application and pay the nonrefundable application processing fee (payable online).
- M.S. – Select “Systems Engineering (M.S.) – Distance” when choosing the program of study.

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
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.