CSU’s online system’s engineering graduate program offers two master’s degrees, a Master of Engineering and a Master of Science. Content for both degrees 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

**M.E. Requirements**

- Minimum of 30 credits of graduate work in approved program of study for the concentration.
- Minimum of 24 credits must be earned at Colorado State University, 21 of which must be at the 500-level and earned after formal admission to the University.
- Minimum of 21 credits earned at Colorado State must be in 500-level or higher.
- 12 credits must be of core courses, 9 credits of depth courses, 6 credits of technical electives, and 3 credits of group study.
- No independent study, research, internship, supervised college teaching, or practicum credits may be credited toward the degree.
- Either ENGR 597 must be completed or an appropriate 3 credit (at a minimum) course that is consistent with the student’s plan of study must be completed as approved by the Program Advisor.

**M.S. 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.

**Additional Requirements for 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.

**Delivery**

Online; select courses have in-person attendance options

**Credits**

30 credits

**Tuition**

$1120 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

**Contact**

Lauren Kelly
Student Success Coach
lauren.aubrey.kelly@colostate.edu
(970) 491-3390
How to Apply
Master of Engineering (M.E.) – Systems Engineering Specialization
or Master of Science (M.S.) in Systems Engineering

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.

Master of Engineering (M.E.) - 30 credits minimum
• B.S. degree from a regionally accredited institution in engineering, business, life sciences, or natural sciences 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

Master of Science (M.S.) - 30 credits minimum
• 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

2 Prepare Application Materials
• Three letters of recommendation— We recommend letters come from faculty, supervisors, etc. who can accurately speak to your skills. You will provide information about your recommenders in the online application. CSU will contact them with instructions and a link to a secure form they will submit on your behalf.
• Resume
• Statement of purpose— (2 pages MAXIMUM) The statement of purpose is typically one or two pages and is meant to address the Systems Engineering Admissions Committee and why you would be a good fit for the program. Topics may include, but are not limited to:
  » Your relevant professional/academic background and skills
  » Why you are interested in Systems Engineering – provide specific areas of interest and application
  » Why you are interested in CSU’s program and what you can contribute to CSU

3 Complete Online Application
Complete the online graduate application and pay the nonrefundable application processing fee (payable online). Your application will not be reviewed until it is complete and all required materials have been received.
• M.E. – Select “Systems Engineering (M.E.) – Distance” when choosing the program of study.
• 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.