Overview
Increase your skills and take your career to a new level in the field of engineering with advanced training in mechanical engineering. In a recent study, EMSI determined that mechanical engineering is among the top 25 occupations facing potential skill shortages. Prepare yourself to meet this market demand with our online Master of Engineering – mechanical engineering specialization which focuses specifically on materials engineering.

Advanced analysis and detailed knowledge of material properties are required when choosing or assessing materials for various engineering projects. Equally important is an understanding of the design, costs, and environmental impact involved. As a practitioner-oriented program, this mechanical engineering degree is designed to equip you with that knowledge and the technical skills for fieldwork practice.

A variety of materials engineering courses offer advanced training in manufacturing, metals and alloys, advanced composite materials, and mechanical design, including material aspects in the context of engineering design and manufacturing processes. Graduates finish this program both technically competent and able to balance business and management principles.

In addition to core courses, flexibility within the online mechanical engineering degree electives allows you to choose coursework that aligns with specific educational or career goals. From systems engineering to experimental optimization, you’re able to choose which 12 credits best round out your degree.

Learning Experience
Our online mechanical engineering master’s program is built on a foundation of practicality. Benefitting from the unique breadth of faculty expertise in areas like bio materials, composites, metals, mechanical design, surfaces, and nano materials, you’ll work through actual case studies that focus on current industry challenges.

In addition, group projects simulate real world dynamics within the mechanical engineering industry with classmates across different geographical locations.

All courses are delivered online via our learning management platform, Canvas. The system allows you to watch recorded, campus-based lectures, engage in course content, and communicate with peers online. Courses are asynchronous, allowing you to study at the time that best fits your schedule.

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

Delivery
Online

Credits
30 credits

Tuition
$882 per credit
• Includes Student Services
• Fees assessed separately
• Financial aid is available; eligibility determined on an individual basis

Time Frame
Can be completed in 2 years

More Info
online.colostate.edu/degrees/mechanical-engineering
How to Apply
Master of Engineering (M.E.) – Mechanical Engineering Specialization – Materials Engineering Focus

Application Deadline
Fall semester: June 1  Spring semester: November 15

Note: Full consideration will be given to applicants who have submitted all documents on time. Applications received after the deadline will be considered only on a space-available basis.

1. Review Admission Requirements
   - Bachelor’s degree in engineering or engineering-related field
   - Minimum GPA of 3.0 on a 4.0 scale or first class standing*
   - Calculus 1, 2, 3*
   - Ordinary differential equations*
   - Physics 1 and 2 (calculus-based)*
   *If you do not meet minimum requirements, please contact megradstudies@engr.colostate.edu to get your transcripts/credentials evaluated before formally applying for the program. Depending on academic background, students without a bachelor's degree in mechanical engineering may also be required to take additional courses. Please use the following email subject line: ME Online – Admission Inquiry – YOUR NAME.

2. Prepare Application Materials
   Prepare the materials below and upload when you apply online.
   - Three letters of recommendation
     Three professional recommendations are required. Recommendations should be from individuals who can accurately evaluate your skills as a student, engineer, scientist, or researcher. 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.
   - Statement of Purpose
     Address the following 3 items for the mechanical engineering department application:
     • Statement of purpose (maximum 700 words) - briefly describe your background, educational goals, long-term career goals, and why you would be a good fit for the program.
     • Why do you think you will succeed in this program?
     • How do you intend to be successful taking graduate level courses? (you can skip the letter of intent on the Online University Application)
   - Resume or vita

3. 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. You do not need to wait for recommendations or transcripts to move your application forward.
   • Select “Mechanical Engineering (M.E.) - Distance” when choosing the Program of Study.

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4 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

5 Submit Test Scores (Optional)

GRE test scores are not required, but may be submitted if you feel these will strengthen your application. Submit official GRE General Test scores through the Educational Testing Service (select institution code: 4075, leave the department code blank). Scores are typically received by the University 4-6 weeks after your testing date.

- All three sections — verbal, quantitative, and analytical — must be submitted. Photocopies are not accepted.
- CSU graduates do not, generally, need to take the GRE. If you think it will strengthen your application, though, we recommend you do take it.
- A [GRE preparation course](https://example.com) is available face-to-face and online through CSU.

Check Your Application Status

- View your [application status](https://example.com) 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.

Information for International Students

Official test scores

Colorado State University requires that proficiency in English language be demonstrated either by the TOEFL, IELTS, or PTE academic tests prior to admission. Please submit one of the official scores from the list below. Scores must be taken within two years prior to admission and submitted directly from the Educational Testing Service (select institution code: 4075).

- The minimum TOEFL score for admission without condition is 550 (paper-based), or 80 (internet-based).
- The minimum IELTS score for admission without condition is 6.5.
- The minimum PTE Academic score for admission without condition is 58.

In general, all applicants from countries in which English is not the official language, and who do not have an undergraduate degree from a country in which the official language is English (Canada, U.K., Australia, USA, New Zealand, etc.), must submit one of the official test scores from the list above.

Questions? Contact a Student Success Coach for help with your application. Call (970) 492-4898.