Overview

Biomedical engineering lies at the intersection of biomedical challenges and engineering solutions. This coursework-only, professional biomedical engineering master's degree provides a transdisciplinary focus on improving health, fighting disease, and aiding persons with disabilities. The master's in biomedical engineering is uniquely positioned to offer educational strengths in engineering, the sciences, and animal and human medicine. Students gain a foundation in biomedical engineering, and the distance delivery of the degree provides the flexibility working professionals and non-traditional students need when pursuing an advanced degree.

With our master's in biomedical engineering, you explore concepts in:
- Structure and function of biomaterials
- Material issues in mechanical design
- Design and data analysis

Requirements

- A minimum of 30 semester credits
- 7 credits of Core courses, 12 credits of Foundation courses, at least 8 credits of Depth courses, and 3 credits in the Breadth area
- 24 semester credits must be earned at Colorado State University, 21 of which must be earned after formal admission
- 24 credits earned at CSU must be at the graduate level (500-level or above), excluding independent study, research, internship, or practicum credits
- 15 credits of biomedical engineering (BIOM) courses
- Approval of your program of study by an advisor prior to completing 15 credits toward the degree

Curriculum

The curriculum is divided into four different categories:
- Core and Foundation - develop a foundation in biomedical engineering
- Depth - gain more knowledge in a particular interest area
- Breadth - focus on advanced and applied mathematics
How to Apply
Master of Engineering (M.E.) – Biomedical Engineering Specialization

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

1 Review Admission Requirements

Successful applicants to the program typically have:
☐ B.S. in engineering, life sciences, or natural sciences from a regionally accredited institution
☐ GPA of 3.0 or higher in engineering or life science courses
☐ Calculus 1, 2, and 3
☐ Ordinary Differential Equations
☐ Physics 1 and 2 (calculus-based preferred)
☐ At least one semester of Life Science (biology, physiology, etc.)

Note that meeting the minimum department standards does not ensure admission to the program. Admission to Colorado State University graduate programs is based on a number of factors, including prior academic and professional experience and the personal statement.

2 Prepare Application Materials

Prepare the materials below and upload when you apply online.

☐ Three letters of recommendation
  Three professional recommendations are required. 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 or vita
  Outline your professional employment, collegiate work, and any publications, exhibitions, service activities, prizes, and awards.

☐ Statement of purpose
  The statement of purpose is typically 1-2 pages and briefly describes your background, educational goals, research interests, and why you would be a good fit in the program. Include in this statement why you think you will succeed in this program, and how you intend to be successful taking graduate level courses. Please include your statement in the online application process.

3 Complete Online Application

Complete the online graduate application form 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 “Engineering (Biomedical Engineering - School of Biomedical Engr) ME-Distance” when choosing the Program of Study.

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.
How to Apply (Continued)

• 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 is available face-to-face and online through CSU.

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.

Information for International Students
In addition to the items listed above, international students must submit the following items:

☐ Official transcript translations
  If transcripts are in a language other than English, ensure official copies include a certified translation into English.

☐ 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.

☐ Proof of financial support
  Submit the IDRF Form to show evidence of adequate financial support as required before an immigration document can be issued by Colorado State University.