

Biomedical Engineering

Master of Engineering (M.E.) – Biomedical Engineering Specialization



Overview

Biomedical engineering lies at the intersection of biomedical challenges and engineering solutions. This coursework-only degree provides a transdisciplinary focus on improving health, fighting disease, and aiding persons with disabilities. This program is uniquely positioned to offer educational strengths in engineering, the sciences, and animal and human medicine. Students gain a foundation in biomedical engineering in a flexible online format designed for working professionals.

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

Delivery

Online

Credits

30 credits

Tuition

\$964 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/biomedical-engineering

Contact

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How to Apply

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Application Deadlines

Fall Semester: **June 1**

Spring Semester: **November 15**

1 Review Admission Requirements

Applicants to this program must 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.)

2 Prepare Application Materials

- Three letters of recommendation
- Resume or vita
- Statement of purpose

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. Your application will not be reviewed until it is complete and all required materials have been received.

- 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.

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.