BIOMEDICAL ENGINEERING - GRADUATE CERTIFICATE

The graduate certificate in biomedical engineering trains next-generation professional engineers to interface engineering and medicine with design and problem solving to improve human health.

- Apply knowledge and skills to a broad range of biomedical fields, from the establishment of disruptive imaging technologies or fabrication of new biomimetic tissue replacements to conception of innovative medical devices
- Engage with clinical, veterinary, and entrepreneurial partners at cutting edge institutions along the Front Range such as Anschutz Medical Campus, Colorado State University for veterinary medicine and local companies, such as Allosource, Medtronic and Terumo, among others
- Gain unique experience in translational and applied medicine

Distance Education Option

Students can take individual courses toward a master’s degree or graduate certificate through distance education (online). For more information, connect with the individual graduate program directly.

Requirements

Admission Requirements

Applicants must provide the following items for admission to the certificate program:

- Statement of purpose (1-2 pages) explaining how the graduate certificate in biomedical engineering will benefit their professional and/or personal interests.
- Formal transcript from an accredited institution of higher education showing proof of completion of an undergraduate degree in engineering or a related field.
- One letter of support from a professional supervisor or a faculty member.

For more information, please contact Jillian Kobow, Graduate Advisor.

Jillian Kobow, Graduate Advisor
303-735-6346
jillian.kobow@colorado.edu

Required Courses and Credits

Nine credit hours of graduate level coursework will be required to complete the certificate program with grades of at least Bs in each course. A minimum GPA of 3.0 is required to remain in good academic standing.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MCEN 5117</td>
<td>Anatomy and Physiology for Engineers</td>
<td>3</td>
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<tr>
<td>MCEN 5127</td>
<td>Biomedical Ultrasound</td>
<td>3</td>
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<tr>
<td>MCEN 5133</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>MCEN 5228</td>
<td>Special Topics in Mechanical Engineering (Materials and Devices in Medicine)</td>
<td>3</td>
</tr>
<tr>
<td>MCEN 5228</td>
<td>Special Topics in Mechanical Engineering (Biometric Materials)</td>
<td>3</td>
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