BIOMECHANICS MINOR

Biomechanics, a subfield of biomedical engineering, blends the life sciences with the traditional engineering disciplines of dynamics, solid mechanics and fluid mechanics. The Department of Mechanical and Aerospace Engineering administers this minor.

About this Program

• College: Herbert Wertheim College of Engineering (http://catalog.ufl.edu/UGRD/colleges-schools/UGENG)

• Credits: 16

Department Information

The Department of Materials Science and Engineering strives to serve the scientific and engineering community of the state and nation by providing quality education in the field, conducting basic and applied research to enhance science in the field, and supplying short courses, technology transfer, industrial consulting, and distance learning to promote engineering in the field.

Website (https://mse.ufl.edu)

CONTACT

Email (mkt@warrington.ufl.edu) | 352.846.3300 (tel) | 352.392.7219 (fax)

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549 Gale Lemerand Drive
RHINES HALL
GAINESVILLE FL 32611-6400
Map (http://campusmap.ufl.edu/#/index/0184)

Curriculum

• Advanced Engineering Ceramics Certificate
• Biomaterials Certificate
• Combination Degrees
• Materials Science and Engineering
• Materials Science and Engineering Minor
• Metallurgical Engineering Certificate
• Nuclear and Radiological Engineering Minor
• Nuclear and Radiological Sciences
• Nuclear Engineering
• Nuclear Radiation and Reactor Analysis Certificate
• Nuclear Thermal Systems Analysis Certificate
• Polymer Science and Engineering Certificate
• Semiconductor Materials Certificate

Students in mechanical engineering can apply biomechanics minor coursework toward their science and technical electives.

Required Courses

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<tr>
<td>EGM 4590</td>
<td>Biodynamics</td>
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<td>EGM 4592</td>
<td>Bio-Solid Mechanics</td>
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<td>EGM 4853</td>
<td>Bio-Fluid Mechanics and Bio-Heat Transfer</td>
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<td>APK 2100C or APK 2105C</td>
<td>Applied Human Anatomy with Laboratory</td>
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Approved Electives

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<td>ABE 3612C</td>
<td>Heat and Mass Transfer in Biological Systems</td>
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<td>ABE 4662</td>
<td>Quantification of Biological Processes</td>
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<td>APK 3220C</td>
<td>Biomechanical Basis of Movement</td>
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<td>Introduction to Biochemistry and Molecular Biology</td>
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<td>OTH 3413C</td>
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