Cancer Nanotechnology Graduate Concentration

for the graduate concentration in Cancer Nanotechnology

Department Head: Mark Anastasio (mfa@illinois.edu)
Director of Graduate Studies: Gregory Underhill (bodony@illinois.edu)
Overview of Grad College Admissions & Requirements: https://grad.illinois.edu/admissions/apply
Department Website: https://bioengineering.illinois.edu
Program Website: https://bioengineering.illinois.edu/academics/graduate/phd/concentrations.html
Department Faculty: https://bioengineering.illinois.edu/directory/
College Website: https://grainger.illinois.edu/
Contact: Krista Smith (kristasm@illinois.edu)
Address: 1240 Everitt Laboratory, 1406 W Green St, Urbana, IL 61801
Phone: (217) 333-1867
Email: bioe-gradprograms@illinois.edu (bioengineering@illinois.edu)

The Cancer Nanotechnology Concentration prepares students for collaborative research across the disciplines of engineering, biology, and the sciences. Students must be enrolled in a graduate degree program:

Bioengineering, MS (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng)
Bioengineering, PhD (http://catalog.illinois.edu/graduate/engineering/bioengineering-phd)
Bioinformatics: Bioengineering, MS (http://catalog.illinois.edu/graduate/engineering/concentration/bioinformatics)
Electrical & Computer Engineering, MS (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-ms)
Electrical & Computer Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/electrical-computer-engineering-phd)
Materials Engineering, MEng (http://catalog.illinois.edu/graduate/engineering/materials-engineering-meng)
Materials Science & Engineering, MS (http://catalog.illinois.edu/graduate/engineering/materials-science-engineering-ms)
Materials Science & Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/materials-science-engineering-phd)
Mechanical Engineering, MS (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-ms)
Mechanical Engineering, MEng (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-meng)
Mechanical Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/mechanical-engineering-phd)
Theoretical & Applied Mechanics, MS (http://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-ms)
Theoretical & Applied Mechanics, PhD (http://catalog.illinois.edu/graduate/engineering/theoretical-applied-mechanics-phd)

Other Graduate Programs in the Department of Bioengineering degrees:

Bioengineering, MEng (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng)
concentrations:
Bioinstrumentation (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/bioinstrumentation)
Computational Genomics (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/computational-genomics)
General Bioengineering (http://catalog.illinois.edu/graduate/engineering/bioengineering-meng/general-bioengineering)

Bioengineering, MS (http://catalog.illinois.edu/graduate/engineering/bioengineering-ms)
optional concentrations:
Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics)
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Bioengineering, PhD (http://catalog.illinois.edu/graduate/engineering/bioengineering-phd)
optional concentrations:
Biomechanics (http://catalog.illinois.edu/graduate/engineering/concentration/biomechanics)
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Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering)

concentrations:

Information listed in this catalog is current as of 03/2020
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The Cancer Nanotechnology Concentration requires students to earn a B or better in each concentration course. Students must complete 12 credit hours, including at least one core Cancer course and one core Nanotechnology course. Participants may take a second core Cancer course and/or a second core Nanotechnology course as an elective. Fulfillment of these requirements will be monitored by the graduate coordinator in Bioengineering.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOE 498</td>
<td>Special Topics (Section RB, Cancer Science and Technology)</td>
<td></td>
</tr>
<tr>
<td>MCB 400</td>
<td>Cancer Cell Biology</td>
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</tbody>
</table>

Elective Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>FSHN 480</td>
<td>Basic Toxicology</td>
</tr>
<tr>
<td>ME 483</td>
<td>Mechanobiology</td>
</tr>
<tr>
<td>ME 487</td>
<td>MEMS-NEMS Theory &amp; Fabrication</td>
</tr>
<tr>
<td>ME 586</td>
<td>Mechanics of MEMS</td>
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</tbody>
</table>

Total hours required for the concentration: 12

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