Ph.D. Degree Recommended Core and Tracks

PHD Degree – 60 credits (including 18 research credits (BIOE 9910))

DEPARTMENTAL CORE

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>STAT 8010 – Statistical Methods I</td>
<td>3 credits</td>
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<tr>
<td>BIOE 8000 – Seminar</td>
<td>(up to 6 credits)</td>
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<tr>
<td>BIOE 8460 – Biomedical Basis for Engineered Replacements</td>
<td>3 credits</td>
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<tr>
<td>BIOE 8160 – Bioengineering Career Professional Development</td>
<td>3 credits</td>
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TRACKS – RESEARCH FOCUSED

<table>
<thead>
<tr>
<th>Track Structure</th>
<th>Biomaterials Engineering</th>
<th>Regenerative Medicine</th>
<th>Bioelectrical Engineering</th>
<th>Biomechanical Engineering</th>
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</thead>
<tbody>
<tr>
<td>TRACK CORE CLASSES:</td>
<td>BIOE 8010 - Biomaterials</td>
<td>BIOE 8010 - Biomaterials</td>
<td>Select 3 of the following:</td>
<td>BIOE 8010 - Biomaterials</td>
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<tr>
<td></td>
<td>BIOE 8020 - Biocompatibility</td>
<td>BIOE 8020 - Biocompatibility</td>
<td>BIOE 6310 – Medical Imaging</td>
<td>BIOE 8020 - Biocompatibility</td>
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<td></td>
<td>BIOE 8200 - Biomechanics</td>
<td>BIOE 8490 – Tissue Eng</td>
<td>BIOE 6350 – Comp Modeling</td>
<td>BIOE 8200 - Biomechanics</td>
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<td>BIOE 8730 – Regen Med</td>
<td>BIOE 6710 – Biophotonics</td>
<td>BIOE 8700 - Instrumentation</td>
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</tbody>
</table>

Track Members:

- Biomaterials Engineering:
  - Bob Latour (Track Chair)
  - Jeoung Soo Lee
  - Ying Mei
  - Alexey Vertegel
  - Jeremy Gilbert
  - Angela Alexander-Bryant

- Regenerative Medicine:
  - Dan Simionescu (Track Chair)
  - Aggie Simionescu
  - Sarah Harcum
  - Ann Foley
  - Jeremy Mercuri
  - Naren Vyavahare
  - Ken Webb
  - Brian Booth
  - Renee Cottle

- Bioelectrical Engineering:
  - Delphine Dean (Track Chair)
  - Bruce Gao
  - Tong Ye
  - Jordon Gilmore
  - Joseph Singapogu
  - David Karig

- Biomechanical Engineering:
  - Jiro Nagatomi (Track co-Chair)
  - Martine LaBerge (Track co-Chair)
  - Hai Yao
  - Melinda Harman
  - John DesJardins
  - Will Richardson