### Ph.D. Degree Plans

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Ph.D. – From BS or MS in non-engineering degree</th>
<th>Ph.D. – From Master’s in another engineering field</th>
<th>Ph.D. – From Master’s in Biomedical Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 hours beyond B.S.</td>
<td></td>
<td>64 hours beyond M.S.</td>
<td>64 hours beyond M.S.</td>
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<tr>
<td>64 hours beyond M.S.</td>
<td></td>
<td>66 hours beyond M.Eng.</td>
<td>66 hours beyond M.Eng.</td>
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</tbody>
</table>

#### Courses:
- **12 hrs** – BMEN courses
- **9 hrs** – Electives*
  - *Includes 1 Life Science Elective
- **3 hrs** – BMEN 674 (Communications), *Spring Only*
- **4 hrs** – BMEN 681 (4 one hour seminars)
- **3 hrs** – BMEN 685 (Instructional Service)
- Research as required (BMEN 691)

#### Other Requirements:
- Qualifying Exam
- Proposal Defense/Preliminary Exam
- Dissertation and defense
- Prereqs/Leveling Courses as required

#### Advisory Committee:
- 4 member minimum –
  - BMEN Faculty Advisor
  - 2 BMEN Faculty
  - Faculty Outside BMEN

### Doctor of Engineering (D.En.) Degree Plan

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>64 hours beyond M.S.</th>
<th>66 hours beyond M.Eng.</th>
</tr>
</thead>
</table>

#### Courses:
In addition to PhD course requirements:
- **16 hrs** internship (BMEN 684) replaces research hours (BMEN 691)
- Prereqs/Leveling Courses as required

#### Other Requirements:
- D.En. Qualifying Exam
- Final Exam
- Record of Study (replaces dissertation and defense)

#### Advisory Committee:
- 4 member minimum –
  - Specially Appointed Faculty Advisor
  - 2 BMEN Faculty
  - Faculty Outside BMEN

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**Note:** The hour requirements reflected in these degree plans represent the **minimum** departmental requirements. Students may elect to take more courses and/or the student’s committee or chair may require more hours than what is listed on these degree plans.