## DOCTORAL DEGREE REQUIREMENTS

General policies for all University of Oklahoma doctoral programs are available in the [Graduate College Bulletin](#).

### DOCTOR of PHILOSOPHY

**MAJOR:** Industrial and Systems Engineering  

Program effective **Summer 2013**

### COURSEWORK REQUIREMENTS

<table>
<thead>
<tr>
<th>Core Courses</th>
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<tbody>
<tr>
<td>ISE 5013</td>
<td>Fundamentals of Engineering Statistical Analysis</td>
</tr>
<tr>
<td>ISE 5023</td>
<td>Systems Optimization</td>
</tr>
<tr>
<td>ISE 5033</td>
<td>Systems Engineering</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

### Additional Coursework

- At least 12 hours of Industrial and Systems Engineering courses must be at the 5000-level or above.
- **ISE 6000-level coursework**  
  Can include ISE 6990 Independent Study taught by the major professor; must be approved by the advisory committee.
- **ISE 5000/6000-level coursework**  
  At least 9 hours of electives are required as approved by the graduate liaison and advisory committee.
- **Additional coursework**  
  **Total**

### Dissertation Research

- **ISE 6980**  
  Research for Doctoral Dissertation  
  30 hours minimum / 42 hours maximum

<table>
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<tr>
<th><strong>TOTAL</strong></th>
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### NOTE

Students with an MS thesis from a recognized industrial engineering program may petition the Graduate Committee to apply up to 30 hours from the MS degree and waive the core course requirements. If a student is approved to waive core course requirements, these courses must be replaced by other courses not including independent study.