INFORMATION SYSTEMS ENGINEERING GRADUATE OPTION

This option is offered within the following major(s):

- Industrial Engineering - College of Engineering (http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/industrial-engineering-meng-ms-phd-mais)

This graduate option within the Industrial Engineering major distinguishes an area of specialization, information systems engineering, within the broader discipline of industrial engineering. Information Systems Engineering (ISE) uses information systems to integrate organizational mechanisms, people, and processes for purposes of improving organizational performance. Typical ISE technologies include database management systems, networks, wireless communications, Web-enabled technologies, and automatic identification and data collection using bar codes, RFID, EDI, and other such devices.

The following set of specific courses will be required of students wishing to declare the IE Information Systems Engineering (ISE) graduate option:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE 511</td>
<td>VISUAL PROGRAMMING FOR INDUSTRIAL APPLICATIONS</td>
<td>4</td>
</tr>
<tr>
<td>IE 512</td>
<td>INFORMATION SYSTEMS ENGINEERING</td>
<td>4</td>
</tr>
<tr>
<td>IE 518</td>
<td>TELECOMMUNICATION CONCEPTS</td>
<td>3</td>
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<tr>
<td>IE 519</td>
<td>WIRELESS NETWORKS</td>
<td>3</td>
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<tr>
<td></td>
<td>Total Hours</td>
<td>14</td>
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Option Code: 3193