ENGINEERING: INSTRUMENTATION AND APPLIED PHYSICS, MENG

for the degree of Master of Engineering in Engineering, Instrumentation and Applied Physics concentration

For additional details and requirements, please refer to the Web page of the concentration's home unit and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook/).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PHYS 523</td>
<td>Instrumentation and Applied Physics Project (4 credit hours in two consecutive semesters)</td>
<td>8</td>
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<tr>
<td>PHYS 524</td>
<td>Survey of Instrumentation and Laboratory Techniques</td>
<td>2</td>
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<tr>
<td>PHYS 525</td>
<td>Survey of Fundamental Device Physics</td>
<td>2</td>
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<tr>
<td>PHYS 503</td>
<td>Instrumentation Physics Applications of Machine Learning</td>
<td>4</td>
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Elective coursework (with approval of advisor) from relevant interdisciplinary areas, such as:

- Material science; Condensed matter physics, including semiconductor physics; Quantum mechanics and quantum information; Statistical and thermal physics; Electrodynamics and electromagnetic radiation; Atomic, molecular, and optical physics; Mathematical physics; Nuclear, plasma, and radiological physics; Biophysics and bioengineering.

Professional Development coursework (from approved list):

- TE 450 Startups: Incorporation, Funding, Contracts, & Intellectual Property
- TE 460 Lectures in Engineering Entrepreneurship
- TE 461 Technology Entrepreneurship
- TE 466 High-Tech Venture Marketing
- TE 565 Technology Innovation & Strategy
- TE 566 Finance for Engineering Mgmt
- other course in Business, Law, or Economics

Total Hours 32

Other requirements

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<tr>
<th>Requirement</th>
<th>Description</th>
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<td>No courses used to fulfill any degree requirement may be taken using the “Credit/No Credit” option.</td>
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<td>Minimum GPA: 3.0</td>
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