Awareness and Localization of Explosives-Related Threats (ALERT)
A Department of Homeland Security Center of Excellence

Industrial PhD Discussions

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Industrial PhD Discussion Points

- Industry Need
  - # of baby boomers retiring
  - # of PhD positions needed in the next 5 years

- Benchmarking European Industrial Model
  - Differences between Academic & Industrial Programs
  - Potential Pilot Program
    - Expand GEL with NEU’s Engineering Management

MSEM—Master of Science in Engineering Management, Project Option

**GENERAL REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EMGT 5220 Engineering Project Management</td>
<td>4</td>
</tr>
<tr>
<td>EMGT 6225 Economic Decision Making</td>
<td>4</td>
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<tr>
<td>IE 6200 Engineering Probability and Statistics</td>
<td>4</td>
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<tr>
<td>OR 6205 Deterministics Operations Research</td>
<td>4</td>
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<tr>
<td>OR 7945 Master’s Project</td>
<td>4</td>
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<tr>
<td>Three approved electives</td>
<td>12</td>
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Next Steps??

- Raise Awareness through work with National Academies
- Prepare Comprehensive Report on Root Cause for Americans not pursue PhD
  - Opportunity Cost of Pursuing a PhD
  - Financial debt burdens
    - Car loans-0.9% APR; 30-yr Fixed Home loans-3.75% APR; Student Loans-5.75%
  - Pay packages
- Potential funding sources
  - STATE
  - NSF
  - INDUSTRY
- Other Suggestions?