Engineering Leadership and Innovation (ELI)
**College Vision:** By 2025, the College of Engineering will be recognized as one of the nation’s Top 50 Public Research Engineering Colleges.

We will drive the Top 50 vision with student-centered catalysts.
ELI Goal

• There is a need for technical leaders with a broad understanding of how engineering is practiced in a rapidly changing business environment.
  – Leaders must have both technical and team management skills.

• ELI goal
  – Prepare exceptional engineering students for potential leadership roles in corporations and industrial firms
ELI At a Glance

- 4-semester program, starting in the junior year
- $3,000/year scholarship for student participants
- Approximately 20 junior-level students will be selected each spring.
  - Total of 40 student participants per year.
- Student participants will take leadership and business courses, learn with industry mentors, and practice leadership within a creative inquiry team.
Program Elements

• Coursework in Leadership and Business
• Leadership practice in creative inquiry teams
• Industry mentoring
• Corporate partner interactions
• Leadership portfolio
• Evaluation of skills development through self- and 360° assessment.
Learning from Theory - Coursework

- Students must have completed LEAD 212 – Introduction to Leadership Concepts (2 credit hours).
- Students take two of the following courses:
  - LEAD 350 - Culture and Context in Leadership (3)
  - LEAD 405 - Leadership in Practice (2)
  - ACCTG 231 – Accounting for Business Operations (3)
  - MANGT 420 – Management Concepts (3)
  - MKTG 400 – Introduction to Marketing (3)
Leadership Practice - Creative Inquiry Team

• Participants should be members of creative inquiry teams for at least 3 semesters while in the program.
  – They will seek leadership positions on the team (e.g., president, treasurer).

• Participants will practice leadership skills learned from coursework and from their mentors.
Leadership Portfolio

• Each participant will create an electronic portfolio, consisting of plans, major activities, and reflections.
  – Leadership development plan
  – Reflection assignments
  – Student leadership practices inventory surveys
Learning with Industry Mentors

• Participants will be paired with an industry mentor from one of the COE corporate partners.
• Industry mentors will have leadership/management experience and will devote about 6 hours per semester in interacting with participant mentees (i.e., email, phone, video chat, face-to-face meetings).
Evaluation of Development

• Participants will evaluate the development of their leadership skills using the Student Leadership Practices Inventory (LPI).
  – Self-assessment - to be taken at the start of the ELI program and at start of the 2\textsuperscript{nd} year.
  – 360\textdegree assessment - to be taken during the last semester of the ELI program.
<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
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<tbody>
<tr>
<td>Creative inquiry team</td>
<td></td>
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<tr>
<td>(two semesters participation)</td>
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<tr>
<td>LEAD 212</td>
<td>Acceptance</td>
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<td>(must be taken before entering program)</td>
<td>(start of spring)</td>
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<td>Application including endorsement by</td>
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<td>creative inquiry team</td>
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### Timeline

<table>
<thead>
<tr>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td>Creative inquiry team</td>
<td>Leadership development plan</td>
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<tr>
<td>(three semesters participation)</td>
<td>Leadership development plan</td>
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<tr>
<td>Coursework in business and/or leadership studies</td>
<td>Leadership essay</td>
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<tr>
<td>(select two of the five courses offered)</td>
<td>Corporate partner interactions</td>
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<td>Leadership development plan</td>
<td>Leadership essay</td>
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<td>Leadership report</td>
<td>Corporate partner interactions</td>
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<td>Corporate partner interactions</td>
<td>Student Leadership Practices Inventory</td>
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<td>Self-evaluation</td>
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<td>Self-evaluation</td>
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<td>360° evaluation</td>
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<td>Participant receives scholarship</td>
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<td>($3,000 per year)</td>
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ELI is designed to **train student leaders and innovators for tomorrow.**

- Learning from theory
- Learning through relationships with corporate mentors
- Learning by practice within creative inquiry teams
Thank You!

For more information: http://www.engg.ksu.edu/eli/