Orfalea College of Business

INDUSTRIAL TECHNOLOGY CONCENTRATION

The Industrial Technology Concentration offers students a broad education in technology management and business that make participants versatile contributors in a wide variety of industries. Students develop knowledge and skills in operations management and planning, supply chain, quality control, product development, automation and project management. The IT Concentration provides students with a practical insight to what it will take to run a business, manufacturing or service organization. IT graduates form the bridge between engineering and business.

Through a combination of core, concentration and approved elective courses, students can further specialize their education in three focus areas of Supply Chain Management, Product Development or Process Improvement.

PROCESS IMPROVEMENT EMPHASIS

The Process Improvement Emphasis provides students a hands-on, team-based education. Participants learn how to develop quality-control systems and cultures in modern organizations to drive continuous process improvement. Through in-class activities and industry connections, students also learn how to increase value, make processes more effective and involve employees in problem solving. The skills gained allow students to work across a wide range of industries including manufacturing, services, administration, health care and government.

Process Improvement coursework examines multiple quality improvement paradigms such as:

- Operational Excellence
- Lean
- Toyota Production System
- Six Sigma
- Theory of Constraints
- Total Quality Management
- ISO 9000
- Total Productive Maintenance
COURSES IN PROCESS IMPROVEMENT EMPHASIS

MAJOR COURSES (All required for Process Improvement Emphasis)
ITP 211: Industrial Safety and Quality Program Leadership
ITP 303: Lean Six Sigma Green Belt
ITP 371: Supply Chain Management in Manufacturing and Services
ITP 409: Packaging Machinery and Processes
ITP 461/462: Senior Project*

IT CONCENTRATION COURSES (All required)
ITP 260: Manufacturing Processes and Materials [PI Emphasis]
ITP 390: Industrial Automation [PI Emphasis]
ITP 403: Lean and Quality Systems Management [PI Emphasis]
ITP 410: Operations Planning and Control [PI Emphasis]
ITP 428: Commercialization of New Technologies
ITP 467: Applied Business Operations [PI Emphasis]

ELECTIVE COURSES (Select four)
BUS 215: Managerial Accounting
BUS 313: Customer Development
BUS 384: Human Resources Management
BUS 387: Organizational Behavior
ITP 413: Packaging Quality Assessment
ITP 475: Packaging Performance Testing

*Students can do a senior project to be certified as a Lean Six Sigma Green Belt.

CAREER OUTLOOK
Many professional opportunities are available to ITP graduates with an Industrial Technology Concentration and emphasis in Process Improvement. Job titles and employers include:

<table>
<thead>
<tr>
<th>Position Titles:</th>
<th>Companies:</th>
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<tbody>
<tr>
<td>Quality Engineer</td>
<td>Boston Scientific</td>
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<tr>
<td>Manufacturing Engineer</td>
<td>Seagate</td>
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<tr>
<td>Process Engineer</td>
<td>Western Allied</td>
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<td>Production Planning</td>
<td>Audi of America</td>
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<td>Analyst Supply Chain</td>
<td>Apple</td>
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<td>Manager Technical</td>
<td>Oracle Corp.</td>
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<td>Program Manager</td>
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CONTACT
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The Association of Technology, Management, and Applied Engineering