B.S. Industrial Technology and Packaging

INDUSTRIAL TECHNOLOGY CONCENTRATION

The Industrial Technology concentration offers students a broad education in technology management and business that make them 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.

CAREER OUTLOOK

Many professional opportunities are available to ITP graduates with an Industrial Technology Concentration. Job titles and employers include:

**Position Titles:**
- Operations Manager
- Supply Chain Manager
- Technical Sales
- Product Development Manager
- Quality Engineer
- Research and Design Manager

**Companies:**
- Boeing
- Northrop-Grumman
- Lockheed Martin
- Apple
- Oracle Corp.
- Amazon

**Average starting salary:** $70,000+
INDUSTRIAL TECHNOLOGY CONCENTRATION COURSES

ITP 260: Manufacturing Processes and Materials [PD, PI]
ITP 390: Industrial Automation [PD, PI]
ITP 403: Lean and Quality Systems Management [SCM, PI]
ITP 410: Operations Planning and Control [SCM]
ITP 428: Commercialization of New Technologies [PD]
ITP 467: Applied Business Operations [SCM, PD, PI]

ELECTIVE COURSES

BUS 215: Managerial Accounting [SCM, PD, PI]
BUS 304: International Supply Chains [SCM]
BUS 310: Introduction to Entrepreneurship [SCM, PD]
BUS 313: Customer Development [SCM, PD, PI]
BUS 384: Human Resources Management [PI]
BUS 387: Organizational Behavior [PI]
BUS 389: Introduction to Business Negotiation for Entrepreneurs [SCM]
ITP 234: Packaging Design Fundamentals [PD]
ITP 275: Industrial Facility Systems and Equipment
ITP 302: Developing and Presenting New Enterprise Strategies
ITP 413: Packaging Quality Assessment [PI]
ITP 414: Packaging Laws and Regulations [SCM]
ITP 475: Packaging Performance Testing [SCM, PI]

MAJOR COURSES

ITP 150: Industrial Power Systems
ITP 211: Industrial Safety and Quality Program Leadership [PI]
ITP 233: Product Modeling and Communication [PD]
ITP 303: Lean Six Sigma Green Belt [SCM, PD, PI]
ITP 326: Product Design and Development [PD]
ITP 330: Packaging Fundamentals
ITP 341: Packaging Polymers and Processing
ITP 371: Supply Chain Manage in Manufacturing and Services [SCM, PD, PI]
ITP 406: Industrial Sales [SCM, PD]
ITP 409: Packaging Machinery and Processes [PI]
ITP 411: Packaging Sustainability [SCM]
ITP 415: Supply Chain and Logistics [SCM]
ITP 461/62: Senior Project

Emphasis Areas: Supply Chain Management (SCM), Process Improvement (PI), Product Development (PD)

LABS AND FACILITIES

The Industrial Technology Concentration has an extensive set of facilities and equipment to support our students, allowing them to transform their ideas from digital drawings to 3-D printed prototypes and automated milling, lathe and waterjet cutter machines. Open Lab provides assisted access to fabrication equipment and tools outside of classes to make their ideas a reality. Other student-focused work areas like our Process Improvement Lab help students practice what they learn in hands-on games and simulations.