

BS ITP INDUSTRIAL TECHNOLOGY & PACKAGING

BS INDUSTRIAL TECHNOLOGY & PACKAGING

The BS in Industrial Technology and Packaging combines business, design, science, and technology to prepare students for impactful careers. You'll learn to create innovative, sustainable products and packaging systems, and manage the supply chains and operations that bring them to life.

Graduates are prepared for in-demand roles such as packaging engineer, structural designer, product designer/developer, industrial engineer, supply chain specialist, operations engineer, manufacturing engineer, quality engineer, and business analyst.

Our curriculum covers a wide range of exciting topics including user-centered design, sustainability, entrepreneurship, marketing, project management, manufacturing, industrial automation, materials, supply chain management, operations management, distribution, logistics, procurement, Lean Six Sigma, technical sales, and business analytics.

Tailor your studies to your career goals with one of our two concentrations:

- **Industrial Technology** – for operations and supply chain leadership.
- **Packaging** – for sustainable design, testing, and product innovation.



CAL POLY
Industrial Technology
& Packaging
ORFALEA COLLEGE OF BUSINESS



STARTING SALARY

\$80k

Average starting salary of recent graduates.

JOB PLACEMENT

100%

Students with a job in the field within one year after graduation in 2023.

STUDENT-FACULTY RATIO

15:1

40 students max per lecture section.
20 students max per lab section.

BS INDUSTRIAL TECHNOLOGY & PACKAGING CURRICULUM

MAJOR COURSES

ITP 1100	Student Orientation & Career Readiness
ITP 1125	Intro to Industrial Technology & Packaging
ITP 1150	Power Systems & Renewable Energy
ITP 2233	Product Modeling & Communication
ITP 3303	Lean Six Sigma Green Belt
ITP 3326	Product Design & Development
ITP 3330	Packaging Fundamentals
ITP 3341	Packaging Polymers & Processing
ITP 3371	Supply Chain Management
ITP 4409	Packaging Machinery and Processes
ITP 4411	Packaging Sustainability
ITP 4464	Senior Project

SUPPORT COURSES

BUS 3346	Principles of Marketing
BUS 3391	Information Systems
CHEM 1120	Chemical Structure & Properties
ECON 2001	Survey of Economics
MATH 1261	Calculus I
PHYS 1121	College Physics I
STAT 1110	Applied Statistical Concepts and Methods

ELECTIVE COURSES

Three concentration electives
One free elective



BS ITP

INDUSTRIAL TECHNOLOGY

BS INDUSTRIAL TECHNOLOGY & PACKAGING

INDUSTRIAL TECHNOLOGY CONCENTRATION

Everywhere you look, products tell a story. They've been designed, mass-produced, packaged, and shipped to reach you. From your favorite snacks and drinks to the clothes in your closet, the medicine in your cabinet, and the products you rely on every day...

Product designers, industrial engineers, and supply chain specialists work together to create and refine the systems that allow products to be mass-produced efficiently and delivered to people around the world.

WHY STUDY INDUSTRIAL TECHNOLOGY?

The **Industrial Technology concentration** offers a dynamic, hands-on curriculum focused on **product development, manufacturing, and supply chain and operations management.**

Students explore a wide range of topics, including technology, product design, materials, manufacturing technology, quality assurance, industrial automation, process improvement, Lean Six Sigma, commercialization of innovation, entrepreneurship, business administration, project management, operations and supply chain management.



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Career Opportunities

Graduates of the **Industrial Technology concentration** are prepared for a wide range of careers in areas such as **industrial engineering, product development, supply chain management, procurement, manufacturing, and technical sales**. This versatility makes Industrial Technology one of the most valuable pathways for students interested in shaping how products are designed, produced, and delivered. Our graduates have gone on to work at leading companies such as:

- Adobe
- Apple
- Boeing
- Cisco
- Dell
- Edwards Lifesciences
- Genentech
- Google
- Northrop Grumman
- Nvidia
- Oracle
- Raytheon
- Stryker
- Tesla
- Walmart

WHAT WILL I LEARN?

- Sustainability
- Product design
- 3D Modeling
- Life Cycle Assessment
- Industrial materials
- Manufacturing tech.
- Supply chain mgmt.
- Operations mgmt.
- Automation
- Project management
- Design thinking
- Lean thinking
- Problem-solving
- Industry 4.0
- Digital technologies

TESTIMONIAL



Oliver Kensinger
Industrial Engineer
at Boeing
BS ITP '23

"The Industrial Technology concentration taught me the technical skills that I needed to be able to excel as an industrial engineer, with enough course variety to understand and act as a bridge between other engineers, supply chain, and business colleagues.

But more than that, it threw me into real-world situations that developed leadership, strong communication, adaptability, and teamwork."

TOP PROGRAM



Top Industrial Technology
Program in the Western US.

UNIVERSITIES.COM

JOB PLACEMENT

100%

Graduates with a job in the field
within one year after
graduation in 2023.

STUDENT-FACULTY RATIO

15:1

40 students max per
lecture section.
20 students max
per lab section.

INDUSTRIAL TECHNOLOGY CONCENTRATION COURSES

REQUIRED COURSES

ITP 2260 Materials & Manufacturing Technology

ITP 4403 Lean & Quality Systems Management

ITP 4415 Supply Chain & Logistics

ITP 4496 Product Development & Manufacturing I

ITP 3390 Industrial Automation

ITP 4410 Operations Planning & Control

ITP 4428 Commercialization of Innovation

ITP 4497 Product Development & Manufacturing II

SELECTED ELECTIVE COURSES

BUS 3310 Introduction to Entrepreneurship

ITP 3304 International Supply Chains

ITP 4406 B2B Complex Solutions Selling

ITP 4470 Sketching for Product Design

BS ITP PACKAGING

BS INDUSTRIAL TECHNOLOGY & PACKAGING

PACKAGING CONCENTRATION

Everywhere you look, products tell a story. They've been designed, mass-produced, packaged, and shipped to reach you. From your favorite snacks and drinks to the clothes in your closet, the medicine in your cabinet, and the products you rely on every day...

Packaging engineers, designers, and scientists create, develop, and test the innovative packaging systems that make modern life possible.

WHY STUDY PACKAGING?

Packaging is more than a box. It's a strategic driver of innovation and value. The **Packaging concentration** covers the entire **value chain**, blending business, design, engineering, materials, and technology. Students build expertise in **sustainability**, **accessibility**, and **globalization**, preparing them to make an impact in industries from food and beverages to healthcare, electronics, cosmetics and personal care, consumer goods, automotive, and beyond.

We inspire students to use their creativity to solve real-world problems and lead innovation in the packaging industry.



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Industrial Technology
& Packaging

ORFALEA COLLEGE OF BUSINESS

Career Opportunities

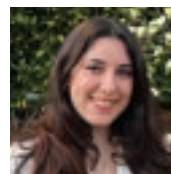
Graduates of the **Packaging concentration** are prepared for a wide range of roles, including **packaging engineering, testing, research and development, procurement, manufacturing, technical sales, and management**. This versatility highlights the value of a Packaging degree and the many paths it opens across industries. Our graduates have gone on to work with leading companies such as:

- Amazon
- Amgen
- Applied Medical
- Apple
- Avery
- Boston Scientific
- Clorox
- Edwards Lifesciences
- Genentech
- Gilead Sciences
- Google
- Intel
- Munchkin
- Landsberg Orora
- PepsiCo
- Tesla
- TransPak
- WestPak

WHAT WILL I LEARN?

- Sustainable design
- Structural design
- Graphic design
- Life Cycle Assessment
- Packaging materials
- Packaging technologies
- Testing methods
- Packaging machinery
- Packaging regulations
- Food packaging
- Healthcare packaging
- Design thinking
- Lean thinking
- Problem-solving
- Scientific research

TESTIMONIAL



Sophia Tamrazian
Packaging Product
Design Engineer at
Apple
BS ITP '20

"The ITP program provided a framework of design principles and real-life experiences that translated directly into my day-to-day work. I gained a lot of experience in team projects by brainstorming, prototyping concepts, widening my material understanding, and learning to execute at an accelerated pace. Working with different students with various backgrounds also prepared me for collaborating with cross functional partners in industry."

TOP PROGRAM



Top Undergraduate
Packaging Program
in the Nation.

VALUECOLLEGES.COM

JOB PLACEMENT

100%

Graduates with a job in the field
within one year after
graduation in 2023.

GLOBAL RECOGNITION



Most WorldStar Student Awards
than any university
in the world.

WORLD PACKAGING ORGANISATION

PACKAGING CONCENTRATION COURSES

REQUIRED COURSES

ITP 2234 Packaging Design Fundamentals

ITP 3334 Structural Packaging Design

ITP 4430 Healthcare Packaging

ITP 4498 Packaging Development

ITP 2241 Industrial & Packaging Materials

ITP 4408 Fiber-Based Packaging

ITP 4475 Distribution Packaging Dynamics

SELECTED ELECTIVE COURSES

BUS 3310 Introduction to Entrepreneurship

ITP 4414 Packaging Laws and Regulations

ITP 4413 Quality Evaluation of Packaged Products

ITP 4415 Supply Chain and Logistics