BS INDUSTRIAL TECHNOLOGY AND PACKAGING

Program Learning Objectives
1. Apply fundamental knowledge and skills to solve management, technology and applied engineering problems.
2. Evaluate the ethical responsibilities in a business or technology context.
3. Relate knowledge of sustainability to practices in industry.
4. Apply decision tools and methods and make recommendations based on their outcome.
5. Demonstrate effective participation and leadership in teams.
6. Demonstrate effective writing and speaking skills.

Degree Requirements and Curriculum
In addition to the program requirements listed on this page, students must also satisfy requirements outlined in more detail in the Minimum Requirements for Graduation (https://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext) section of this catalog, including:

• 60 units of upper-division courses
• 2.0 GPA
• Graduation Writing Requirement (GWR)
• U.S. Cultural Pluralism (USCP)

Note: No Major or Support courses may be selected as credit/no credit.

MAJOR COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITP 100</td>
<td>Student Orientation, College Success and Career Readiness</td>
<td>1</td>
</tr>
<tr>
<td>ITP 125</td>
<td>Introduction to Supply Chain and Packaging Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITP 150</td>
<td>Industrial Power Systems</td>
<td>4</td>
</tr>
<tr>
<td>ITP 211</td>
<td>Industrial Safety and Quality Program Leadership</td>
<td>4</td>
</tr>
<tr>
<td>ITP 233</td>
<td>Product Modeling and Communication</td>
<td>4</td>
</tr>
<tr>
<td>ITP 303</td>
<td>Lean Six Sigma Green Belt</td>
<td>4</td>
</tr>
<tr>
<td>ITP 326</td>
<td>Product Design and Development</td>
<td>4</td>
</tr>
<tr>
<td>ITP 330</td>
<td>Packaging Fundamentals (Upper-Division B)¹</td>
<td>4</td>
</tr>
<tr>
<td>ITP 341</td>
<td>Packaging Polymers and Processing</td>
<td>4</td>
</tr>
<tr>
<td>ITP 371</td>
<td>Supply Chain Management in Manufacturing and Services</td>
<td>4</td>
</tr>
<tr>
<td>ITP 406</td>
<td>Professional Technical Selling</td>
<td>4</td>
</tr>
<tr>
<td>ITP 409</td>
<td>Packaging Machinery and Processes</td>
<td>4</td>
</tr>
<tr>
<td>ITP 411</td>
<td>Packaging Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>ITP 415</td>
<td>Supply Chain and Logistics</td>
<td>4</td>
</tr>
<tr>
<td>ITP 461</td>
<td>Senior Project I</td>
<td>2</td>
</tr>
<tr>
<td>ITP 462</td>
<td>Senior Project II</td>
<td>2</td>
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</tbody>
</table>

Concentration courses (see below) 40

SUPPORT COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 346</td>
<td>Principles of Marketing</td>
<td>4</td>
</tr>
</tbody>
</table>

BUS 391 Information Systems 4
CHEM 124 General Chemistry for Physical Science and Engineering I (B1 & B3)¹ 4
or CHEM 127 General Chemistry for Agriculture and Life Science I 4
ECON 201 Survey of Economics (D2)¹ 4
MATH 141 Calculus I (B4)¹ 4
or MATH 221 Calculus for Business and Economics 4
PHYS 121 College Physics I 4
PHYS 123 College Physics III 4
STAT 217 Introduction to Statistical Concepts and Methods (GE Electives)¹ 4
or STAT 218 Applied Statistics for the Life Sciences 4
or STAT 251 Statistical Inference for Management I 4

GENERAL EDUCATION (GE)
(See GE program requirements below.) 52

FREE ELECTIVES

Free Electives 0
Total units 180

¹ Required in Major or Support; also satisfies General Education (GE) requirement.

Concentrations

• Industrial Technology (https://catalog.calpoly.edu/collegesandprograms/orfaleacollegeofbusiness/bsindustrialtechnologypackaging/industriatechnologyconcentration/)
• Packaging Technology (https://catalog.calpoly.edu/collegesandprograms/orfaleacollegeofbusiness/bsindustrialtechnologypackaging/packagingtechnologyconcentration/)

General Education (GE) Requirements

• 72 units required, 20 of which are specified in Major and/or Support.
• If any of the remaining 52 units is used to satisfy a Major or Support requirement, additional units of Free Electives may be needed to complete the total units required for the degree.
• See the complete GE course listing (https://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext).
• A grade of C- or better is required in one course in each of the following GE Areas: A1 (Oral Communication), A2 (Written Communication), A3 (Critical Thinking), and B4 (Mathematics/Quantitative Reasoning).

Area A

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Oral Communication</td>
<td>4</td>
</tr>
<tr>
<td>A2</td>
<td>Written Communication</td>
<td>4</td>
</tr>
<tr>
<td>A3</td>
<td>Critical Thinking</td>
<td>4</td>
</tr>
</tbody>
</table>

Area B

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>Physical Science (4 units in Support)¹</td>
<td>4</td>
</tr>
<tr>
<td>B2</td>
<td>Life Science</td>
<td>4</td>
</tr>
<tr>
<td>B3</td>
<td>One lab taken with either a B1 or B2 course</td>
<td>4</td>
</tr>
</tbody>
</table>
### BS Industrial Technology and Packaging

<table>
<thead>
<tr>
<th>Area</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| **B4** | Mathematics/Quantitative Reasoning  
(4 units in Support) |
| **Upper-Division B (4 units in Major)** | 0 |

**Area C**  
Arts and Humanities  
Lower-division courses in Area C must come from three different subject prefixes.  
- **C1**  
  Arts: Arts, Cinema, Dance, Music, Theater  
  4  
- **C2**  
  Humanities: Literature, Philosophy, Languages other than English  
  4  
- **Lower-Division C Elective** - Select a course from either C1 or C2  
  4  
- **Upper-Division C**  
  Social Sciences - Select courses in Area D from at least two different prefixes  
  4

**Area D**  
American Institutions (Title 5, Section 40404 Requirement)  
- **D1**  
  4  
- **D2**  
  Lower-Division D (4 units in Support)  
  0

**Upper-Division D**  
Lifelong Learning and Self-Development  
- **Area E**  
  Lifelong Learning and Self-Development  
  4

**Area F**  
Ethnic Studies  
- **F**  
  Ethnic Studies  
  4

**GE Electives in Areas B, C, and D**  
Select courses from two different areas; may be lower-division or upper-division courses.  
- **GE Electives (4 units in Support plus 4 units in GE)**  
  4

**Total units**  
52  

1 Required in Major or Support; also satisfies General Education (GE) requirement.