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 (http://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
ITP 150 Industrial Power Systems 4
ITP 211 Industrial Safety and Quality Program Leadership 4
ITP 233 Product Modeling and Communication 4
ITP 303 Lean Six Sigma Green Belt 4
ITP 326 Product Design and Development 4
ITP 330 Packaging Fundamentals (Area F) 4
ITP 341 Packaging Polymers and Processing (Area F) 4
ITP 371 Supply Chain Management in Manufacturing and Services 4
ITP 406 Industrial Sales 4
ITP 409 Packaging Machinery and Processes 4
ITP 411 Packaging Sustainability 4
ITP 415 Supply Chain and Logistics 4
ITP 461 Senior Project I 2
ITP 462 Senior Project II 2
Concentration courses (see below) 40

SUPPORT COURSES
BUS 214 Financial Accounting 4
or BUS 212 Financial Accounting for Nonbusiness Majors 4
BUS 346 Principles of Marketing 4
BUS 391 Information Systems 4
CHEM 111 Survey of Chemistry (B3 & B4) 4-5
CHEM 124 General Chemistry for Physical Science and Engineering I
CHEM 127 General Chemistry for Agriculture and Life Science I
ECON 201 Survey of Economics (D2) 4
MATH 141 Calculus I (B1) 4
or MATH 221 Calculus for Business and Economics
PHYS 121 College Physics I 4
PHYS 123 College Physics III 4
STAT 217 Introduction to Statistical Concepts and Methods (B1) 4
or STAT 218 Applied Statistics for the Life Sciences
or STAT 251 Statistical Inference for Management I
or STAT 302 Statistics II

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

FREE ELECTIVES
Free Electives 0
Total units 180

1 Required in Major/Support; also satisfies GE
2 STAT 302 is not a GE course. All students must complete two approved GE B1 courses.

Concentrations
- Industrial Technology (http://catalog.calpoly.edu/collegesandprograms/orfaleacollegeofbusiness/bsindustrialtechnologypackaging/industriatechnologyconcentration)
- Packaging (http://catalog.calpoly.edu/collegesandprograms/orfaleacollegeofbusiness/bsindustrialtechnologypackaging/packagingconcentration)

General Education (GE) Requirements
- 72 units required, 20 of which are specified in Major and/or Support.
- See the complete GE course listing (http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext).
- Minimum of 12 units required at the 300 level.

Area A Communication
A1 Expository Writing 4
A2 Oral Communication 4
A3 Reasoning, Argumentation and Writing 4

Area B Science and Mathematics
B1 Mathematics/Statistics (8 units in Support) 4
B2 Life Science 4
B3 Physical Science (4 units in Support) 4
B4 One lab taken with either a B2 or B3 course

Area C Arts and Humanities
C1 Literature 4
C2 Philosophy 4
C3 Fine/Performing Arts 4
C4 Upper-division elective 4
<table>
<thead>
<tr>
<th>Area C elective</th>
<th>(Choose one course from C1-C5)</th>
<th>4</th>
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<tbody>
<tr>
<td><strong>Area D/E</strong></td>
<td><strong>Society and the Individual</strong></td>
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<tr>
<td>D1</td>
<td>The American Experience (Title 5, Section 40404 requirement)</td>
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<tr>
<td>D2</td>
<td>Political Economy (4 units in Support) (^1)</td>
<td>0</td>
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<tr>
<td>D3</td>
<td>Comparative Social Institutions</td>
<td>4</td>
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<tr>
<td>D4</td>
<td>Self Development (CSU Area E)</td>
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<tr>
<td>D5</td>
<td>Upper-division elective</td>
<td>4</td>
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<tr>
<td><strong>Area F</strong></td>
<td><strong>Technology</strong></td>
<td></td>
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<tr>
<td>F</td>
<td>Upper-division elective (4 units in Major) (^1)</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total units** 52

\(^1\) Required in Major/Support; also satisfies GE.