



Curriculum for B.S. Degree in Industrial Technology (180 units)

CALIFORNIA STATE UNIVERSITY, LOS ANGELES

(Effective Fall 2008)

TRANSFER STUDENT

Lower Division General Education Requirements (52 units)

ENGL 101	Composition I: Reflective and Expository Writing (4)
COMM 150	Oral Communication (4)
BLOCK A3 – Critical Thinking	1 course (4)
*BLOCK A4 – Math 102	College Algebra (4)
HIST 202A <i>or</i> HIST 202B	United States Civilization (4)
POLS 150	Government and American Society (4)
BLOCK B1- Biological	Natural History of Animals <i>or</i> Plants (4/4)
*BLOCK B2- Physics 156 (OR)	Physics for the Twenty-first Century (4)
*CHEM 151	Fundamentals of Chemistry 1 (5)
(1 course)	
BLOCK B3 – Applied Natural	1 course (4)
(1 course)	
BLOCK C – Humanities	3 courses (12)
(3 courses)	
BLOCK D – Social Sciences	2 courses (8)
(2 courses)	
BLOCK E – Lifelong Understanding and Self-Development	1 course (4)
* These Required Courses or their equivalents must be taken as part of the General Education program and are not counted in the units to take for the major	

University Requirement (4 units)

ENGL 102	Composition II: Analytical and Persuasive Writing (4)
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Foundation Program (35 units)

The lower division program may be completed at a community college or at another four-year institution. The major requires 104 units including 23 semester units (35 quarter units) of community college work for students who have completed a two year community college program in computer aided design, electronics, manufacturing technology, power/energy/transportation, or a similar technology-oriented program.

Required Core (38 units)

TECH 101	Industrial Safety for Industrial Design (3)
TECH 301	Transition to CSULA for Technology Majors (2)
TECH 305	Information Literacy for Technologists (2)
TECH 310	The Design Process (3)
TECH 330	Graphic Communications in Processes and Materials (3)
TECH 360	Modern Manufacturing (3)
TECH 370	Power, Energy and Transportation (3)
TECH 400	Written Communication Skills for Industrial Technology (4)
TECH 421	Internetworking Technology (4)
TECH 488	Fluid Power (3)
TECH 489	Industrial Training Methods (4)
TECH 495	Practicum Industrial Technology (4)

Required Track Courses (19 units)

Students must *choose one of the two tracks listed below* and complete one of the five concentrations.

Industry Track:

ECON 209	Applied Business and Economics Statistics I (4)
ECON 309	Applied Business and Economics Statistics II (4)
MATH 242	Mathematics for Business and Economics Majors (4)
MGMT 306	Production and Operations Management (4)
TECH 482	Metrics for Industry (3)

Technology Education Track:

TECH 384	Foundations of Technology Education (4)
TECH 491	Technology Education in the Middle Grades (4)
TECH 492	Technology Education in the High School (4)
TECH 493	Technology Education Facilities: Construction, (3) Equipment, and Maintenance
TECH 494	Industrial Technology Education Curriculum (4)

Required Concentration Courses (12 units)

Students must *choose one concentration area* listed below.

Computer Integrated Design:

TECH 313	Product Design and Development (3)
TECH 315	Project Design & Document Control (3)
TECH 411	Tool Design (3)
TECH 462	Digital Manufacturing (3)

Internetworking:

TECH 422	Router Configurations (4)
TECH 423	Intermediate Routing and LAN Switching (4)
TECH 424	Wide Area Networks (4)

Graphic Communications:

TECH 432	Typographical Layout and Design (3)
TECH 434A	Graphical Communications Production Management I (3)
TECH 436	Electronic Publishing Technology and Management (3)
TECH 437	Alternative Media Production (3)

Manufacturing Processes and Automation:

TECH 460	Manufacturing, Materials and Processes (3)
TECH 462	Digital Manufacturing (3)
TECH 466	Computer-Aided Manufacturing (3)
TECH 467	Emerging Manufacturing Technologies (3)

Power, Energy and Transportation:

TECH 470	Electric, Hybrid and Alternative Fueled Vehicles (3)
TECH 474	Power Generation, Distribution and Utilization (3)
TECH 476	Electronic and Computer Control Systems for Power, Energy and Transportation (3)
TECH 478	Emerging Technologies in Power, Energy and Transportation (3)

General Education Upper Division Theme (12 units)

UPPER DIVISION GE THEME	3 courses (12)
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Notes:

1. Select two *diversity* courses from among all GE courses taken.
2. Must take the *Writing Proficiency Examination (WPE)* prior to completing 135 quarter units.