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 or HIST 202B United States Civilization (4)
POLS 150 Government and American Society (4)
BLOCK B1- Biological Natural History of Animals or 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)

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)

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.