

# A unique partnership leading to your degree in Industrial Technology

## with Emphasis in Manufacturing/Design

Two of Los Angeles' leading educational institutions have created a  
2 + 2 articulation agreement to expedite your studies to become an Industrial Technologist

### EAST LOS ANGELES COLLEGE

Department of Engineering and Technology (323) 265-8858

#### GENERAL EDUCATION AT ELAC

##### Required General Education Lower Division Courses

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> BIOL 3   | Introduction to Biology           |
| <input type="checkbox"/> ENGL 101 | College Reading and Composition   |
| <input type="checkbox"/> ENGL 103 | Composition and Critical Thinking |
| <input type="checkbox"/> SPCH 101 | Oral Communication I              |

It is recommended that you take **two to five** of the eight courses below. Taking more than five courses is likely to result in the loss of units.

- |  |   |
|--|---|
| <input type="checkbox"/> U.S. HISTORY*       | HIST 5 or 6 or 11 or 12                     |
| <input type="checkbox"/> POL SCI 1           | The Government of the United States         |
| <input type="checkbox"/> BLOCK C (3 courses) | Humanities                                  |
| <input type="checkbox"/> BLOCK D (2 courses) | Social and Political Sciences               |
| <input type="checkbox"/> BLOCK E (1 course)  | Lifelong Understanding and Self-Development |

\* HIST 11 and 12 are equivalent to Cal State L.A.'s HIST 202A and 202B respectively. You can also meet the Cal State L.A.'s U.S. History requirement by taking HIST 5 or 6.

#### COURSES IN MAJOR PROGRAM AT ELAC

##### Basic Sciences and Mathematics Requirements

- |  |  |
|--|--|
| <input type="checkbox"/> CHEM 65 or 101    | Introductory General Chemistry or General Chemistry I  |
| <input type="checkbox"/> GEN ENGR 221      | Engineering Probability and Statistics (or MATH 227)   |
| <input type="checkbox"/> GET 121           | Engineering Calculations I (or MATH 125)               |
| <input type="checkbox"/> GET 122           | Engineering Calculations II (or MATH 241)              |
| <input type="checkbox"/> GET 223           | Engineering Calculations III (or MATH 261 or MATH 236) |
| <input type="checkbox"/> PHYS 11 or 6 or 1 | Introductory Physics or General Physics I              |

##### Lower Division Engineering Technology Courses

- |  |   |
|--|---|
| <input type="checkbox"/> EET 120             | DC Circuits   |
| <input type="checkbox"/> GEN ENGR 101        | Introduction to Science, Engineering, and Technology            |
| <input type="checkbox"/> GEN ENGR 102        | Engineering Problem Solving                                     |
| <input type="checkbox"/> GEN ENGR 110        | Engineering Graphics  |
| <input type="checkbox"/> GEN ENGR 161 or 151 | Processing of Engineering Materials or Materials of Engineering |
| <input type="checkbox"/> GET 221             | Technical Applications of Digital Computation                   |
| <input type="checkbox"/> MET 211 or 212      | Elementary Mechanical Principles or Technical Statics           |

##### Required Technical Courses

- |   |   |
|---|---|
| <input type="checkbox"/> GEN ENGR 211       | Computer Augmented Design Techniques I                |
| <input type="checkbox"/> GEN ENGR 212       | Computer Augmented Design Techniques II               |
| <input type="checkbox"/> GEN ENGR 24        | Strength of Materials Laboratory                      |
| <input type="checkbox"/> GEN ENGR 272       | Principles of Engineering Economy                     |
| <input type="checkbox"/> GET 246 or GET 241 | Applied Mechanics or Technology Strength of Materials |

### CAL STATE L.A.

Department of Technology (323) 343-4550

#### GENERAL EDUCATION AT CAL STATE L.A.

##### General Education Lower Division

- |  |                          |
|--|--------------------------|
| <input type="checkbox"/> Lower Division GE | 3-6 remaining GE courses |
|--|--------------------------|

##### General Education Upper Division Theme

- |  |           |
|--|-----------|
| <input type="checkbox"/> Upper Division GE Theme | 3 courses |
|--|-----------|

Note: You must select two **diversity** courses from among the GE courses you take at Cal State L.A.

#### COURSES IN MAJOR PROGRAM AT CAL STATE L.A.

##### Technical Courses

- |                                   |  |
|-----------------------------------|--|
| <input type="checkbox"/> TECH 101 | Industrial Safety for Industrial Education     |
| <input type="checkbox"/> TECH 150 | Introduction to Higher Education in Technology |
| <input type="checkbox"/> TECH 380 | Industrial Graphic Communications              |
| <input type="checkbox"/> TECH 381 | Materials, Process and Fabrication Technology  |
| <input type="checkbox"/> TECH 382 | Power Technology                               |
| <input type="checkbox"/> TECH 398 | Cooperative Education                          |
| <input type="checkbox"/> TECH 400 | Written Communication Skills                   |
| <input type="checkbox"/> TECH 414 | Robotics in Industry                           |
| <input type="checkbox"/> TECH 481 | Practicum in Industrial Studies                |
| <input type="checkbox"/> TECH 484 | Automated Manufacturing Systems                |
| <input type="checkbox"/> TECH 488 | Fluid Power                                    |
| <input type="checkbox"/> TECH 489 | Industrial Training Methods                    |

##### Required Management Courses

- |                                   |   |
|-----------------------------------|---|
| <input type="checkbox"/> ACCT 202 | Survey of Accounting                        |
| <input type="checkbox"/> ECON 309 | Applied Business and Economic Statistics II |
| <input type="checkbox"/> MGMT 306 | Production and Operations Management        |
| <input type="checkbox"/> MGMT 467 | Quality Control                             |

##### Advanced Technology Courses

- |                                    |                           |
|------------------------------------|---------------------------|
| <input type="checkbox"/> TECH 411  | Tool Design               |
| <input type="checkbox"/> TECH 454L | 3D Parametric Modeling    |
| <input type="checkbox"/> TECH 454L | Rapid Prototyping         |
| <input type="checkbox"/> TECH 465  | Automated Metal Machining |

Note: You are required to take the Writing Proficiency Examination (WPE) prior to completing 135 quarter units.