

# A unique partnership leading to your degree in Electrical Engineering

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

## EAST LOS ANGELES COLLEGE

Department of Engineering and Technology (323) 265-8858

### GENERAL EDUCATION AT ELAC

#### General Education Lower Division

It is recommended that you take all nine courses below at ELAC.

- |                          |                     |   |
|--------------------------|---------------------|---|
| <input type="checkbox"/> | ENGL 101            | College Reading and Composition I           |
| <input type="checkbox"/> | SPCH 101            | Oral Communication I                        |
| <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 E (1 course)  | Lifelong Understanding and Self-Development |
| <input type="checkbox"/> | ENGL 103**          | Composition and Critical Thinking           |

\* 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.

\*\* English 103 is not a General Education course, but is a Cal State L.A. university graduation requirement

### COURSES IN MAJOR PROGRAM AT ELAC

#### Basic Sciences and Mathematics

- |                          |          |                                      |
|--------------------------|----------|--------------------------------------|
| <input type="checkbox"/> | CHEM 101 | General Chemistry I                  |
| <input type="checkbox"/> | MATH 261 | Calculus I                           |
| <input type="checkbox"/> | MATH 262 | Calculus II                          |
| <input type="checkbox"/> | MATH 263 | Calculus III                         |
| <input type="checkbox"/> | MATH 275 | Ordinary Differential Equations      |
| <input type="checkbox"/> | PHYS 1   | Mechanics of Solids                  |
| <input type="checkbox"/> | PHYS 2   | Mechanics of Fluids, Heat, and Sound |
| <input type="checkbox"/> | PHYS 3   | Electricity and Magnetism            |

#### Lower Division Engineering Courses

- |                          |               |  |
|--------------------------|---------------|--|
| <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 121  | Engineering Applications of Digital Computation      |
| <input type="checkbox"/> | GEN ENGR 131  | Statics  |
| <input type="checkbox"/> | ELEC ENGR 220 | Electrical Circuits I                                |
| <input type="checkbox"/> | GEN ENGR 272  | Principles of Engineering Economy                    |

## CAL STATE L.A.

Department of Electrical and Computer Engineering (323) 343-4470

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

#### General Education Upper Division Theme

- Upper Division GE Theme\*\*\* 3 courses

\*\*\* A biology course must be included as part of GE Upper Division Theme

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.

#### Lower Division Engineering Course

- EE 244 Digital Engineering

#### Upper Division Engineering Courses

- |                          |          |   |
|--------------------------|----------|---|
| <input type="checkbox"/> | ENGR 301 | Ethics and Professionalism in Engineering |
| <input type="checkbox"/> | EE 304   | Electric Machines                         |
| <input type="checkbox"/> | EE 317   | Electronics Laboratory I                  |
| <input type="checkbox"/> | EE 320   | Analog Communication Systems              |
| <input type="checkbox"/> | EE 330   | Writing for Electrical Engineers          |
| <input type="checkbox"/> | EE 332   | Systems Analysis                          |
| <input type="checkbox"/> | EE 334   | Probability and Random Processes          |
| <input type="checkbox"/> | EE 336   | Electronics                               |
| <input type="checkbox"/> | EE 345   | Microcomputer Programming                 |
| <input type="checkbox"/> | EE 346   | Digital Logic Laboratory                  |
| <input type="checkbox"/> | EE 360   | Controls Systems Theory I                 |
| <input type="checkbox"/> | EE 437   | Electric and Magnetic Fields              |
| <input type="checkbox"/> | EE 496A  | Senior Design I                           |
| <input type="checkbox"/> | EE 496B  | Senior Design II                          |
| <input type="checkbox"/> | EE 496C  | Senior Design III                         |
| <input type="checkbox"/> | PHYS 333 | Applied Modern Physics                    |

#### Upper Division Math and Technical Electives

- |                          |                                |   |
|--------------------------|--------------------------------|---|
| <input type="checkbox"/> | MATH 325 or 402A or 403 or 474 | 1 course  |
| <input type="checkbox"/> | EE SPECIALIZATION              | 3 lecture courses and 1 lab course in one specialty |
| <input type="checkbox"/> | EE TECHNICAL ELECTIVES         | 5 lecture courses and 2 lab courses                 |

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