

# A unique partnership leading to your degree in Electrical Engineering with Specialization in Computer Engineering

Two of Southern California's leading educational institutions have created a  
2 + 2 articulation agreement to expedite your studies to become a Computer Engineer

## GLENDALE COMMUNITY COLLEGE

Engineering Drafting Department (818) 240-1000 ext. 5541

### GENERAL EDUCATION AT GCC

#### Required General Education Lower Division Courses

It is recommended that you take all ten courses below at GCC.

- |                          |                                   |   |
|--------------------------|-----------------------------------|---|
| <input type="checkbox"/> | ENGL 101                          | Freshman English  |
| <input type="checkbox"/> | SPCH 101                          | Public Speaking   |
| <input type="checkbox"/> | HIST 110, 117 or 118 <sup>†</sup> | United States History or History of the United States             |
| <input type="checkbox"/> | POLS 106+105*                     | American State and Local Government and American Political Ideals |
| <input type="checkbox"/> | AREA C (3 courses)                | Arts, Literature, Philosophy and Foreign Language                 |
| <input type="checkbox"/> | AREA E (1 course)                 | Lifelong Understanding and Self-Development                       |
| <input type="checkbox"/> | ENGL 104                          | Critical Thinking and Argumentation                               |

<sup>†</sup> HIST 110 is the recommended history course. However, you can also meet the Cal State L.A.'s U.S. History requirement by taking HIST 117 or 118.

\* See advisor for other available options.

### COURSES IN MAJOR PROGRAM AT GCC

#### Basic Sciences and Mathematics

- |                          |          |                                 |
|--------------------------|----------|---------------------------------|
| <input type="checkbox"/> | CHEM 101 | General Chemistry               |
| <input type="checkbox"/> | MATH 103 | Calculus and Analytic Geometry  |
| <input type="checkbox"/> | MATH 104 | Calculus and Analytic Geometry  |
| <input type="checkbox"/> | MATH 105 | Calculus and Analytic Geometry  |
| <input type="checkbox"/> | MATH 108 | Ordinary Differential Equations |
| <input type="checkbox"/> | PHY 101  | Engineering Physics             |
| <input type="checkbox"/> | PHY 102  | Engineering Physics             |
| <input type="checkbox"/> | PHY 103  | Engineering Physics             |

#### Required Technical Courses

- |                          |                  |  |
|--------------------------|------------------|--|
| <input type="checkbox"/> | CS/IS 135 or 137 | Programming in C/C++ or Advanced C and C++ Programming |
| <input type="checkbox"/> | ECT 103          | Introduction to Digital Logic                          |
| <input type="checkbox"/> | ECT 104          | Introduction to Microprocessors                        |
| <input type="checkbox"/> | ENGR 100         | Introduction to Engineering                            |

## 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

- |                          |                               |                                    |
|--------------------------|-------------------------------|------------------------------------|
| <input type="checkbox"/> | EE 204 [formerly ENGR 204]    | Circuit Analysis I                 |
| <input type="checkbox"/> | CE/ME 208 [formerly ENGR 208] | Statics and Strength of Materials  |
| <input type="checkbox"/> | EE 210**                      | Electrical Measurements Laboratory |
| <input type="checkbox"/> | EE 211***                     | Electric Circuits Laboratory       |
| <input type="checkbox"/> | EE 290                        | Electrical Engineering Computing   |

\*\* Credit will be granted for students who take ECT 102 at Glendale Community College.

\*\*\* Credit will be granted for students who take ECT 101 at Glendale Community College.

#### Upper Division Engineering Courses

- |                          |          |   |
|--------------------------|----------|---|
| <input type="checkbox"/> | ENGR 300 | Economics for Engineers                   |
| <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 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 342                         | Introduction to Software Engineering      |
| <input type="checkbox"/> | EE 347                         | Computer Logic Design                     |
| <input type="checkbox"/> | EE 443                         | Digital and Timing Circuits Laboratory    |
| <input type="checkbox"/> | EE 445                         | Microprocessor Interface Design           |
| <input type="checkbox"/> | EE 448                         | Digital Design Laboratory                 |
| <input type="checkbox"/> | EE 449                         | Computer Organization                     |
| <input type="checkbox"/> | EE TECHNICAL ELECTIVES         | 4 lecture courses and 1 laboratory course |

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

Effective November 1999