

# A unique partnership leading to your degree in Mechanical Engineering

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

## LOS ANGELES CITY COLLEGE

Department of Engineering and Physics (323) 953-4319

### GENERAL EDUCATION AT LACC

#### Required General Education Lower Division Courses

- ENGLISH 101                      College Reading and Composition I
- SPEECH 101                      Oral Communication I

*It is recommended that you take **four** of the seven courses listed below. The **three** remaining lower division GE courses along with the three courses required to satisfy the GE Upper Division Theme will be useful in balancing the technical course load at Cal State L.A.*

- HISTORY 5 or 6 or 11 or 12 or 13\*                      History of the Americas I or II or Political and Social History of the United States I or II or the United States in the Twentieth Century
- POLSCI 1    The Government of the United States
- AREA C (3 courses)    Arts, Literature, Philosophy and Foreign Languages
- AREA E (1 course)    Lifelong Understanding and Self Development
- ENGLISH 103    Critical Thinking, Reading, and Writing

\*Select **one** course from HISTORY 5, HISTORY 6, HISTORY 11, HISTORY 12, HISTORY 13.

### COURSES IN MAJOR PROGRAM AT LACC

#### Basic Sciences and Mathematics

- CHEM 101    General Chemistry I
- CSIT 113 or MATH 150\*\*    Beginning FORTRAN Programming or Introduction to FORTRAN
- MATH 261    Calculus I
- MATH 262    Calculus II
- MATH 263    Calculus III
- MATH 275    Ordinary Differential Equations
- PHYSICS 1    Mechanics of Solids
- PHYSICS 2    Heat, Wave Motion, Fluids and Geometrical Optics
- PHYSICS 3    Electricity and Magnetism

#### Lower Division Engineering Courses

- EE 220    Electrical Circuits
- GEN ENGR 101    Introduction to Science, Engineering and Technology
- GEN ENGR 131    Statics
- GEN ENGR 151    Materials of Engineering
- GEN ENGR 241    Strength of Materials

\*\* May substitute a course in any high-level programming language (i.e., CSIT 106, CSIT 108, CSIT 139, CSIT 140).

## CAL STATE L.A.

Department of Mechanical Engineering (323) 343-4490

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

#### General Education Lower Division

- Lower Division GE    3 remaining courses

#### 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 Courses

- CE/ME 210 ◀ (formerly ENGR 210)                                      Matrix Algebra for Engineers
- CE/ME 211 ◀ ◀ (formerly ENGR 211)                                      Statistics and Probability for Engineers
- ME 103    Introduction to Mechanical Design

◀ Credit will be granted for students who take MATH 270 at L.A. City College.

◀ ◀ Credit will be granted for students who take MATH 225 at L.A. City College.

#### Upper Division Engineering Courses

- CE/ME 303    Fluid Mechanics I
- CE/ME 312    Strength of Materials Laboratory I
- CE/ME 320    Dynamics I
- ENGR 300    Economics for Engineers
- ENGR 301    Ethics and Professionalism in Engineering
- ME 306    Heat Transfer I
- ME 310    Mechanical Measurements Laboratory
- ME 319    Computer-Aided Mechanical Engineering
- ME 323    Machine Design I
- ME 326A    Thermodynamics I
- ME 326B    Thermodynamics II
- ME 327    Manufacturing Processes
- ME 497A    Mechanical Engineering Senior Project
- ME 497B    Mechanical Engineering Senior Project
- ME 497C    Mechanical Engineering Senior Project

#### Technical Electives

- ME TECHNICAL ELECTIVES                                      6 lecture courses
- ME TECHNICAL ELECTIVES                                      3 laboratory courses

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