

A unique partnership leading to your degree in Civil Engineering

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

LOS ANGELES CITY COLLEGE

Department of Engineering and Physics (323) 953-4319

GENERAL EDUCATION AT LACC

Required General Education Lower Division Courses

- | | | |
|---|-----------------------------------|--|
| <input type="checkbox"/> | ENGLISH 101 | College Reading and Composition I |
| <input type="checkbox"/> | SPEECH 101 | Oral Communication I |
| <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.</i> | | |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | POLSCI 1 | The Government of the United States |
| <input type="checkbox"/> | AREA C (3 courses) | Arts, Literature, Philosophy and Foreign Languages |
| <input type="checkbox"/> | AREA E (1 course) | Lifelong Understanding and Self Development |
| <input type="checkbox"/> | 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

- | | | |
|--------------------------|------------------------|--|
| <input type="checkbox"/> | CHEM 101 | General Chemistry I |
| <input type="checkbox"/> | CSIT 113 or MATH 150** | Beginning FORTRAN Programming or Introduction to FORTRAN |
| <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"/> | PHYSICS 1 | Mechanics of Solids |
| <input type="checkbox"/> | PHYSICS 2 | Heat, Wave Motion, Fluids and Geometrical Optics |
| <input type="checkbox"/> | PHYSICS 3 | Electricity and Magnetism |

Lower Division Engineering Courses

- | | | |
|--------------------------|--------------|---|
| <input type="checkbox"/> | EE 220 | Electrical Circuits |
| <input type="checkbox"/> | GEN ENGR 101 | Introduction to Science, Engineering and Technology |
| <input type="checkbox"/> | GEN ENGR 131 | Statics |
| <input type="checkbox"/> | GEN ENGR 151 | Materials of Engineering |
| <input type="checkbox"/> | 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 Civil Engineering (323) 343-4450

GENERAL EDUCATION AT CAL STATE L.A.

General Education Lower Division

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

General Education Upper Division Theme

- | | | |
|--------------------------|----------------------------|-----------|
| <input type="checkbox"/> | 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

- | | | |
|--------------------------|-------------------------------|--|
| <input type="checkbox"/> | CE 190 | Introduction to CAD |
| <input type="checkbox"/> | CE 195 | Civil Engineering Design I |
| <input type="checkbox"/> | CE 202 | Plane Surveying |
| <input type="checkbox"/> | CE 290 | Numerical Methods for Engineers |
| <input type="checkbox"/> | CE/ME 210 (formerly ENGR 210) | Matrix Algebra for Engineers |
| <input type="checkbox"/> | CE/ME 211 (formerly ENGR 211) | Statistics and Probability for Engineers |

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

- | | | |
|--------------------------|-----------|---|
| <input type="checkbox"/> | ENGR 300 | Economics for Engineers |
| <input type="checkbox"/> | ENGR 301 | Ethics and Professionalism in Engineering |
| <input type="checkbox"/> | ENGL 306 | Technical Report Writing |
| <input type="checkbox"/> | ME 326A | Thermodynamics I |
| <input type="checkbox"/> | CE/ME 303 | Fluid Mechanics I |
| <input type="checkbox"/> | CE/ME 312 | Strength of Materials Laboratory I |
| <input type="checkbox"/> | CE/ME 313 | Fluid Mechanics Laboratory I |
| <input type="checkbox"/> | CE/ME 320 | Dynamics |
| <input type="checkbox"/> | CE 360 | Structural Mechanics I |
| <input type="checkbox"/> | CE 361 | Introduction to Structural Design I |
| <input type="checkbox"/> | CE 364 | Concrete Laboratory |
| <input type="checkbox"/> | CE 366 | Soil Mechanics I |
| <input type="checkbox"/> | CE 368 | Soil Mechanics Laboratory |
| <input type="checkbox"/> | CE 370 | Transportation Engineering |
| <input type="checkbox"/> | CE 384 | Introduction to Environmental Engineering |
| <input type="checkbox"/> | CE 487 | Design of Water Resources Systems |
| <input type="checkbox"/> | CE 495 | Civil Engineering Design Project |

Technical Electives

- | | | |
|--------------------------|--------------------------------|-----------------------------|
| <input type="checkbox"/> | CE DESIGN ELECTIVES | 2 design courses |
| <input type="checkbox"/> | CE DESIGN OR LECTURE ELECTIVES | 2 design or lecture courses |
| <input type="checkbox"/> | CE LABORATORY ELECTIVE | 1 laboratory course |

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

Effective October 1999