

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

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 English 101 and Speech 101 plus **four** courses from the list below. The **three** remaining 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.

- | | |
|--|---|
| <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 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 110 | Engineering Graphics |
| <input type="checkbox"/> GEN ENGR 121 | Engineering Applications of Digital Computation |
| <input type="checkbox"/> GEN ENGR 131 | Statics |
| <input type="checkbox"/> GEN ENGR 151 | Materials of Engineering |
| <input type="checkbox"/> GEN ENGR 221 | Engineering Probability and Statistics |
| <input type="checkbox"/> GEN ENGR 231 | Dynamics |
| <input type="checkbox"/> GEN ENGR 241 | Strength of Materials |
| <input type="checkbox"/> GEN ENGR 242 | Strength of Materials Laboratory |
| <input type="checkbox"/> GEN ENGR 272 | Principles of Engineering Economy |
| <input type="checkbox"/> ELEC ENGR 220 | Electrical Circuits I |

CAL STATE L.A.

Department of Mechanical Engineering (323) 343-4490

GENERAL EDUCATION AT CAL STATE L.A.

General Education Lower Division

- | | |
|--------------------------------|--|
| <input type="checkbox"/> _____ | Insert GE holdover course (See ELAC GE note) |
| <input type="checkbox"/> _____ | Insert GE holdover course (See ELAC GE note) |
| <input type="checkbox"/> _____ | Insert GE holdover course (See ELAC GE note) |

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.

Upper Division Engineering Courses

- | | |
|------------------------------------|---|
| <input type="checkbox"/> ENGR 301 | Ethics and Professionalism in Engineering |
| <input type="checkbox"/> ME/CE 303 | Fluid Mechanics I |
| <input type="checkbox"/> ME 306 | Heat Transfer I |
| <input type="checkbox"/> ME 310 | Mechanical Measurements Laboratory |
| <input type="checkbox"/> ME 319 | Computer-Aided Mechanical Engineering |
| <input type="checkbox"/> ME 323 | Machine Design I |
| <input type="checkbox"/> ME 326A | Thermodynamics I |
| <input type="checkbox"/> ME 326B | Thermodynamics II |
| <input type="checkbox"/> ME 327 | Manufacturing Processes |
| <input type="checkbox"/> ME 497A | Mechanical Engineering Senior Project |
| <input type="checkbox"/> ME 497B | Mechanical Engineering Senior Project |
| <input type="checkbox"/> ME 497C | Mechanical Engineering Senior Project |

Technical Electives

- | | |
|---|----------------------|
| <input type="checkbox"/> ME TECHNICAL ELECTIVES | 6 lecture courses |
| <input type="checkbox"/> ME TECHNICAL ELECTIVES | 3 laboratory courses |

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