

A unique partnership leading to your degree in Mechanical Engineering

Two of Southern California's leading educational institutions have created a
2 + 2 articulation agreement to expedite your studies to become a Mechanical 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 [†] | United States History or History of the United States |
| <input type="checkbox"/> POLS 106+105* | American State and Local Government <u>and</u>
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 |

[†] 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 |

Lower Division Technical Courses

- | | |
|---|------------------------------|
| <input type="checkbox"/> CS/IS 150** | FORTRAN Programming |
| <input type="checkbox"/> ECT 102 | Electronics Circuits II (AC) |
| <input type="checkbox"/> ENGR 100 | Introduction to Engineering |
| <input type="checkbox"/> ENGR 103 or ARCH 103 | Descriptive Geometry |
| <input type="checkbox"/> MATP 146 | Materials and Processes |

** May substitute a course in any high-level programming language (i.e., CS/IS 130, CS/IS 135, CS/IS 137, CS/IS 139, CS/IS 140, CS/IS 145).

CAL STATE L.A.

Department of Mechanical Engineering (323) 343-4490

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 Courses

- | | |
|--|--|
| <input type="checkbox"/> CE/ME 201 [formerly ENGR 201] | Statics |
| <input type="checkbox"/> CE/ME 205 [formerly ENGR 205] | Strength of Materials I |
| <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 107 at Glendale Community College.

**** Credit will be granted for students who take MATH 136 at Glendale Community College.

Upper Division Engineering Courses

- | | |
|------------------------------------|---|
| <input type="checkbox"/> CE/ME 303 | Fluid Mechanics I |
| <input type="checkbox"/> CE/ME 312 | Strength of Materials Laboratory I |
| <input type="checkbox"/> ENGR 300 | Economics for Engineers |
| <input type="checkbox"/> ENGR 301 | Ethics and Professionalism in Engineering |
| <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"/> CE/ME 320 | Dynamics |
| <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.