

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

Mt. SAN ANTONIO COLLEGE

Physics and Engineering Department (909) 594-5611 ext. 4424

GENERAL EDUCATION AT Mt. SAC

Required General Education Lower Division Courses

- | | |
|---|---|
| <input type="checkbox"/> ENGL 1A or 1AH | Freshman Composition or Freshman Composition - Honors |
| <input type="checkbox"/> HIST 7 or 8* | History of United States |
| <input type="checkbox"/> SPCH 1A or 1AH | Public Speaking or Public Speaking - Honors |

It is recommended that you take **three** of the six 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.

- | | |
|--|---|
| <input type="checkbox"/> ENGL 1C or 1CH | Critical Thinking and Writing or Critical Thinking and Writing - Honors |
| <input type="checkbox"/> POLI 1 or 1H | Political Science or Political Science - Honors |
| <input type="checkbox"/> BLOCK C (3 courses) | Arts and Humanities |
| <input type="checkbox"/> BLOCK E (1 course) | Lifelong Understanding and Self-Development |

* HIST 7 is equivalent to Cal State L.A.'s HIST 202A and HIST 8 is equivalent to Cal State L.A.'s HIST 202B. You can also meet the Cal State L.A.'s History Requirement by taking any one course from HIST 1, 1H, 30, 31, 36, 40.

COURSES IN MAJOR PROGRAM AT Mt. SAC

Basic Sciences and Mathematics

- | | |
|-----------------------------------|---|
| <input type="checkbox"/> CHEM 1A | General Chemistry |
| <input type="checkbox"/> MATH 180 | Calculus and Analytic Geometry |
| <input type="checkbox"/> MATH 181 | Calculus and Analytic Geometry |
| <input type="checkbox"/> MATH 280 | Calculus and Analytic Geometry |
| <input type="checkbox"/> MATH 285 | Linear Algebra and Differential Equations |
| <input type="checkbox"/> PHYS 4A | Engineering Physics |
| <input type="checkbox"/> PHYS 4B | Engineering Physics |

Technical Courses

- | | |
|----------------------------------|-----------------------------|
| <input type="checkbox"/> ENGR 8 | Properties of Materials |
| <input type="checkbox"/> ENGR 24 | Engineering Graphics |
| <input type="checkbox"/> ENGR 40 | Statics |
| <input type="checkbox"/> ENGR 41 | Dynamics |
| <input type="checkbox"/> ENGR 42 | Mechanics of Materials |
| <input type="checkbox"/> ENGR 44 | Electrical Engineering |
| <input type="checkbox"/> ENGR 48 | Introduction to Engineering |

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 Mt SAC GE note) |
| <input type="checkbox"/> _____ | Insert GE holdover course (See Mt SAC GE note) |
| <input type="checkbox"/> _____ | Insert GE holdover course (See Mt SAC 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.

Lower Division Engineering Courses

- | | |
|--|--|
| <input type="checkbox"/> CE/ME 211 (formerly ENGR 211) ▶ | Statistics and Probability for Engineers |
| <input type="checkbox"/> CS 290 ▶▶ | Introduction to FORTRAN Programming |

▶ Credit will be granted for students who take MATH 110 at Mount San Antonio College.

▶▶ Credit will be granted for students who take CSCI 120 at Mount San Antonio College.

Upper Division Engineering Courses

- | | |
|------------------------------------|---|
| <input type="checkbox"/> CE/ME 303 | Fluid Mechanics I |
| <input type="checkbox"/> CE/ME 312 | Strength of Materials I Laboratory |
| <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"/> 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 LECTURE ELECTIVES | 6 lecture courses |
| <input type="checkbox"/> ME LABORATORY ELECTIVES | 3 laboratory courses |

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