

## Mechanical Engineering

### LOWER-DIVISION TRANSFER PATTERN

#### California State University (CSU) Statewide Pattern

The Lower-Division Transfer Pattern (LDTP) consists of the CSU statewide pattern of coursework outlined below, plus campus-specific coursework, bringing the total pattern to at least 60 but no more than 70 transferable semester units for students to complete at a California Community College (CCC).

The CSU statewide pattern of coursework for CCC students who plan to major in Mechanical Engineering at any CSU campus offering the major includes:

- Partial completion of lower-division general education requirements, following the CSU General Education Breadth (GE-Breadth) pattern;
- Completion of the CSU graduation requirements in United States History, Constitution and American Ideals; and
- Completion of additional semester units as specified below in (3), (4) and (5).

Please note that the information here is an academic and curricular advising tool: a roadmap that enables transfer students to efficiently and effectively progress towards the CSU baccalaureate degree in a specified discipline. California Community College students should work closely with their advisers when planning their academic program in preparation for transfer to the CSU.

This information does not represent any guarantee with regard to admission nor does it include or replace CSU campus admissions impaction criteria. These curricular guidelines are subject to change.

CSU Statewide Pattern	Semester Unit Requirement
<p><b>(1) Complete lower-division general education requirements in the following areas:</b></p> <ul style="list-style-type: none"> <li>• <b>Oral Communication</b> GE-Breadth Area A1</li> <li>• <b>Written Communication</b> GE-Breadth Area A2</li> <li>• <b>Life Science</b> GE-Breadth Area B2</li> <li>• A course in <b>Arts</b> or <b>Humanities</b> GE-Breadth Area C (3 units)</li> </ul>	<p><b>12 units</b></p> <p>Minimum grade of C is required in courses in oral and written communication.</p>
<p><b>(2) Complete the graduation requirements in United States History, Constitution and American Ideals.<sup>1</sup></b></p> <p>These are typically completed with one course each in American government and American history, or a sequence of courses that integrate the history and government topics.</p> <p>Students completing GE-Breadth should ordinarily use these courses to satisfy 6 units of Area D.</p>	<p><b>6 units</b></p>
<p><b>(3) Complete the following:</b></p> <ul style="list-style-type: none"> <li>• A one-year sequence in <b>Calculus</b> [CAN MATH Sequence B] (8 units). One course will be used to satisfy GE-Breadth Area B4.</li> <li>• Coursework in both <b>Differential Equations</b> and <b>Linear Algebra</b> (at least 3 units). If a three-unit course is not available, a CAN MATH 24 course and a CAN MATH 26 course will together satisfy this requirement.</li> </ul>	<p><b>11 units</b></p> <p>Minimum grade of C is required in the course satisfying GE-Breadth Area B4.</p>

<sup>1</sup> CCC courses that fulfill general education and graduation requirements in United States History, Constitution and American Ideals are listed at [www.assist.org](http://www.assist.org).

<p><b>(4) Complete the following:</b></p> <ul style="list-style-type: none"> <li>• <b>General Chemistry for Science Majors, 1<sup>st</sup> Semester</b> [CAN CHEM 2] (at least 4 units).</li> <li>• Two courses in <b>Physics (Calculus based)</b> [CAN PHYS 8 and CAN PHYS 12] (at least 6 units).</li> </ul> <p>One of these courses must include a laboratory. That course will be used to satisfy GE-Breadth Areas B1 and B3.</p>	<p><b>10 units</b></p>
<p><b>(5) Complete the following:</b></p> <p><b>Statics</b> [CAN ENGR 8]</p> <p><b>Engineering Materials</b> [CAN ENGR 4]</p> <p><b>Circuits</b> [CAN ENGR 12]</p>	<p><b>2 units</b></p> <p><b>3 units</b></p> <p><b>3 units</b></p>
<p><b>Total Semester Units Required for Statewide LDTP Pattern</b></p>	<p><b>47 Units</b></p>

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