

Civil 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 Civil 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 impact criteria. These curricular guidelines are subject to change.

| CSU Statewide Pattern | Semester Unit Requirement |
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| <p>(1) Complete lower-division general education requirements in the following areas:</p> <ul style="list-style-type: none"> • Oral Communication GE-Breadth Area A1 • Written Communication GE-Breadth Area A2 • Arts and Humanities GE-Breadth Area C – one course | <p>9 units</p> <p>Minimum grade of C is required in Oral Communication and Written Communication courses</p> |
| <p>(2) Complete the graduation requirements in United States History, Constitution and American Ideals.¹</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 should ordinarily use these courses to satisfy 6 units of GE-Breadth Area D.</p> | <p>6 units required for GE-Breadth</p> |
| <p>(3) Complete the following:</p> <ul style="list-style-type: none"> • First-year Calculus courses [CAN Math Sequence B] (8 units) One course will be used to satisfy GE-Breadth Area B4. • A course in differential equations and linear algebra (3 units) [combination of CAN MATH 24 and CAN MATH 26] | <p>11 units</p> |
| <p>(4) Complete the following:</p> <ul style="list-style-type: none"> • General Chemistry for Science majors (with laboratory) [CAN CHEM 2] (4 units) • General Biology (3 units) <p>These courses will be used to meet GE-Breadth Areas B1, B2, and B3.</p> | <p>7 units</p> |
| <p>(5) Complete the following:</p> | <p>12 units</p> |

¹ CCC courses that fulfill general education and graduation requirements in United States History, Constitution and American Ideals are listed at www.assist.org.

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| <ul style="list-style-type: none">• Physics (Calculus Based - Mechanics) [CAN PHYS 8] (3 units)• Physics (Calculus Based Electricity and Magnetism) [CAN PHYS 12] (3 units)• Statics [CAN ENGR 8] (at least 2 units)• Surveying [CAN ENGR 10] (3 units)• Graphics with CAD (1 unit) | |
| Total Semester Units Required for Statewide LDTP Pattern | 45 Units |