

Computer Science

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 Computer Science at any CSU campus offering the major includes:

- Completion of lower-division general education requirements except for Area E, 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>(1) Complete lower-division general education requirements in the following areas:</p> <ul style="list-style-type: none"> • Three courses to satisfy GE-Breadth Area A (9 units) • A course to satisfy GE-Breadth Area B4 (see (3) below) (3 units) • Science courses to satisfy GE-Breadth Areas B1, B2, and B3 (see (3) below) (6 units) • Three courses in Arts, Literature, and Foreign Language to satisfy 9 units of GE-Breadth Area C. (9 units) • One course in Area D: Social, Political, and Economic Institutions and Behavior; Historical Background in addition to those required in (2). (3 units) 	<p>30 units Minimum grade of C required in courses used to meet Areas A and B4</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 completing GE-Breadth should ordinarily use these courses to satisfy 6 units of Area D.</p>	<p>6 units</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. • One year of Physics - Calculus Based-Mechanics [CAN PHYS 8*] and Calculus Based Electricity and Magnetism [CAN PHYS 12*] (8 units). One course will be used to satisfy GE-Breadth Area B1. • A Life Science course for Science Majors with lab (4 units). This course will 	<p>5 units (first 3 units counted in GE)</p> <p>5 units (first 3 units counted in GE)</p> <p>1 unit</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.

be used to satisfy GE-Breadth Area B2 and B3.	
(4) Complete the following: <ul style="list-style-type: none"> • A sequence of courses that is compliant with the standards of the Association for Computing Machinery (ACM). The sequence will include approximately 6 units of study in programming and 6 units of coursework distributed equally between discrete mathematics and machine organization. 	12 units
Total Semester Units Required for Statewide LDTP Pattern	59 Units

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San Francisco State University Campus-Specific Pattern

In addition to the statewide pattern, the following is the San Francisco State University campus-specific pattern:

Campus-Specific Pattern
(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete: <ul style="list-style-type: none">• A course that articulates with [CAN ENGL 2, SFSU ENG 114], College Composition, 1st semester and• A course that articulates with [CAN ENGL 4, SFSU ENG 214], College Composition and Literature, 2nd semester
(2) Complete additional coursework to bring total to 60 transferable semester units.

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Sonoma State University Campus-Specific Pattern

In addition to the statewide pattern, the following is the Sonoma State University campus-specific pattern:

Campus-Specific Pattern
(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete: <ul style="list-style-type: none">• A course that articulates with the introductory use of Unix as a programming environment, including communication with a Unix host, shells and shell commands, files and directories, jobs and processes, scripting, and programming utilities.
(2) Complete additional coursework to bring total to 60 transferable semester units