

Economics

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 Economics at any CSU campus offering the major includes:

- Completion of lower-division general education requirements, following either the CSU General Education Breadth (GE-Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern;
- Completion of the CSU graduation requirements in United States History, Constitution and American Ideals; and
- Completion of six additional semester units as specified below in (3) and (4).

CSU Statewide Pattern	Semester Unit Requirement
<p>(1) Complete lower-division general education requirements.</p> <p>Obtain a <i>certification of completion</i> of GE-Breadth or IGETC by the California Community College before transferring to a CSU campus.</p> <p>While completing general education, follow the course pattern stated below.</p>	<p>39 units for GE-Breadth</p> <p>Minimum grades of C are required in courses used to meet GE-Breadth Areas A and B4.</p> <p>or</p> <p>37 units for IGETC</p> <p>Minimum grade of C is required in each course used for IGETC.</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>0 units required for GE-Breadth</p> <p>6 units for IGETC</p> <p>IGETC does <u>not</u> permit double counting of courses to meet IGETC <i>and</i> U.S. History, Constitution and American Ideals requirements.</p>
<p>(3) Complete the following courses:</p> <ul style="list-style-type: none"> • Introduction to Macroeconomics [CAN ECON 2] and • Introduction to Microeconomics [CAN ECON 4]. <p>One of these courses can be used to satisfy GE-Breadth Area D2 or IGETC Area 4B. These units are counted in (1).</p>	<p>0-3 units</p> <p>0-3 units</p>
<p>(4) Complete additional coursework as needed to bring total to 45 transferable semester units.</p>	<p>0-3 units</p>
<p>Total Semester Units Required for Statewide LDTP Pattern</p>	<p>45 Units (GE-Breadth) 46 Units (IGETC)</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.

<ul style="list-style-type: none"> • A course that articulates with [CAN BUS 2], Financial Accounting 	0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units	0-15 units
Total Semester Units Required for CSU Channel Islands	15 units

In addition to the statewide pattern, the following is the CSU Channel Islands campus-specific pattern for a **B.A. in Economics with an emphasis in International Economics**:

Campus-Specific Pattern	Semester Unit Requirement
(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 MATH 18, CSUCI MATH 140], Calculus for Business Applications - An integrated course in analytic geometry and calculus in the context of business and economics applications, with functions, limits, derivatives, integrals and mathematical modeling used in problem solving in a decision-making context. For the <u>International Economics Emphasis</u>, also complete: <ul style="list-style-type: none"> • A course that articulates with Two courses in a foreign language (for example, CAN SPAN 2 and CAN SPAN 4, or CAN SPAN SEQ A) 	<p style="text-align: center;">0-3 units</p> <p style="text-align: center;">0-6 units</p>
(2) Complete additional coursework to bring total to 60 transferable semester units	0-15 units
Total Semester Units Required for CSU Channel Islands	15 units

In addition to the statewide pattern, the following is the CSU Channel Islands campus-specific pattern for a **B.A. in Economics with an emphasis in Quantitative Economics**:

Campus-Specific Pattern	Semester Unit Requirement
(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 MATH 18, CSUCI MATH 140], Calculus for Business Applications - An integrated course in analytic geometry and calculus in the context of business and economics applications, with functions, limits, derivatives, integrals and mathematical modeling used in problem solving in a decision-making context. For the <u>Quantitative Economics Emphasis</u>, also complete: <ul style="list-style-type: none"> • A course that articulates with [CAN MATH SEQ A] 	<p style="text-align: center;">0-3 units</p> <p style="text-align: center;">0-6 units</p>
(2) Complete additional coursework to bring total to 60 transferable semester units	0-15 units
Total Semester Units Required for CSU Channel Islands	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Chico Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Chico campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 18], Analytic Geometry and Calculus or A course that articulates with [CAN MATH 30], Calculus for the Life and Social Sciences or An additional upper division Economics course that is not taken to satisfy any other requirement and • A course that articulates with [CSUC BADM 103], Statistics of Business and Economics - A course that covers descriptive statistics, sampling theory, statistical inference and tests of hypotheses, analysis of variance, chi-square tests, simple regression and correlation, and multiple regression and correlation. or A course that articulates with [CAN STAT 2], Statistics <p>And <u>one</u> course from the following:</p> <ul style="list-style-type: none"> • A course that articulates with [CSUC CSCI 110], Introduction to Applications Programming - A course that introduces programming using an integrated graphical development environment with a presentation of event-driven, visual, and object-oriented programming concepts and an emphasis on the total program development process--problem analysis, design, coding, testing, debugging, and maintenance. or • A course that articulates with [CSUC MINS 301], Corporate Technology Integration - A course that introduces the concept of information systems as the application of technical resources to support organizational processes; an integrative, process-oriented understanding of information systems and their deployment, management, and use within distributed and global organizations is developed. or • A course that articulates with [CSUC SOSC 110], Computer Applications for the Behavioral and Social Sciences - A course that develops skill on micros and experience with applications on time-sharing machines as well as explores issues presented by the computer in society. 	<p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p>
<p>(2) Complete additional coursework to bring total to 60 transferable semester units.</p>	<p>6-15 units</p>
<p>Total Semester Units Required for CSU Chico</p>	<p>15 units</p>

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Dominguez Hills Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Dominguez Hills campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
Complete additional coursework to bring total to 60 transferable semester units.	15 units
Total Semester Units Required for CSU Dominguez Hills	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU East Bay Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU East Bay campus-specific pattern for the **B.A. in Economics**:

Campus-Specific Pattern	Semester Unit Requirement
(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 STAT 2], Introduction to Statistics and • A course that articulates with [CAN MATH 30], Mathematics for Business and Social Sciences or A course that articulates with [CAN MATH 18], Calculus, 1st semester 	 0-3 units 0-3 units
(2) If any of the above requirements are taken within the statewide LDTP pattern, complete additional electives to bring total to 60 transferable semester units.	9-15 units
Total Semester Units Required for CSU East Bay	15 units

In addition to the statewide pattern, the following is the CSU East Bay campus-specific pattern for the **B.A. in Economics with the option in Accounting**:

Campus-Specific Pattern	Semester Unit Requirement
(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 BUS 2], Financial Accounting and • A course that articulates with [CAN BUS 4], Managerial Accounting and • A course that articulates with [CAN STAT 2], Introduction to Statistics and • A course that articulates with [CAN MATH 30], Mathematics for 	 3 units 3 units 0-3 units 0-3 units

Business and Social Sciences or <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 18], Calculus, 1st semester 	
(2) Complete additional coursework to bring total to 60 transferable semester units.	3-9 units
Total Semester Units Required for CSU East Bay	15 units

In addition to the statewide pattern, the following is the CSU East Bay campus-specific pattern for the **B.A. in Economics with the option in Statistical Economics**:

Campus-Specific Pattern	Semester Unit Requirement
(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 MATH 18], Calculus, 1st semester and • A course that articulates with [CAN MATH 20], Calculus, 2nd semester 	0-3 units 0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units	6-9 units
Total Semester Units Required for CSU East Bay	15 units

In addition to the statewide pattern, the following is the CSU East Bay campus-specific pattern for the **B.A. in Economics with the option in Social Science Economics**:

Campus-Specific Pattern	Semester Unit Requirement
(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 STAT 2], Introduction to Statistics and • A course that articulates with [CAN MATH 10], College Algebra 	0-3 units 0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units	9-15 units
Total Semester Units Required for CSU East Bay	15 units

Economics

LOWER-DIVISION TRANSFER PATTERN

CSU Fresno Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Fresno campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
Complete additional coursework to bring total to 60 transferable semester units. Statistics [CAN STAT 2] is recommended.	15 units
Total Semester Units Required for CSU Fresno	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Fullerton Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Fullerton campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 30], Calculus for the Life and Social Science or A course that articulates with [CAN MATH 34], Calculus for Business or A course that articulates with [CAN MATH 18], Calculus, 1st Semester and • A course that articulates with [CAN BUS 2], Financial Accounting and • A course that articulates with [CAN BUS 4], Managerial Accounting or A course that articulates with [CAN MATH 20], Calculus, 2nd Semester and • A course that articulates with [CSUF BUAD 201], Business Writing Business Administration - A course that covers core communication practices: routing business correspondence, positive, informative, negative, persuasive messages. and • A course that articulates with [CSUF IS/DS 265], Introduction to Computing and Application Software - An introduction to computer concepts, computer organization, operation, hardware, systems and application software; business problem-solving and computer programming; applications to business. 	<p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p>
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for CSU Fullerton	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
Humboldt State University Campus-Specific Pattern

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

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <p><u>One</u> course from the following:</p> <ul style="list-style-type: none"> • A course that articulates with [HSU MATH 106], Calculus for Business and Economics - A course that covers logarithmic and exponential functions; derivatives, integrals; velocity, curve 	0-3 units

<p>sketching, area; marginal cost, revenue, and profit, consumer savings; present value. or</p> <ul style="list-style-type: none"> • A course that articulates with [HSU MATH 115], Algebra and Elementary Functions - A course that covers functions and their graphs; in-depth treatment of exponential and logarithmic functions; trigonometry: trigonometric functions, identities, solving triangles; and polynomial functions. or • A course that articulates with [CAN MATH 18], Calculus I <p>And <u>one</u> course from the following:</p> <ul style="list-style-type: none"> • A course that articulates with [HSU BA 232], Business Statistics - A course that covers elementary statistical methods for business/economic analysis; descriptive statistics, inference, correlation and regression, index numbers, probability, time series analysis. or • A course that articulates with [CAN STAT 2], Introduction to Statistics or • A course that articulates with [HSU SOC 282], Sociological Statistics - A course that covers techniques of statistical description and inference and how they are used in social science research. 	0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for Humboldt State University	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Long Beach Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Long Beach campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 34], Calculus for Business or A course that articulates with [CAN MATH 18], Calculus, 1st Semester and • A course that articulates with [CSULB ACCT 201], Elementary Financial Accounting - An introduction to financial accounting theory and practice. 	<p>3-4 units</p> <p>0-3 units</p>
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for CSU Long Beach	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Los Angeles Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Los Angeles campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 34], Calculus for Business and • A course that articulates with [CSULA ECON 209], Applied Business and Economic Statistics I - A course that covers elementary business and economics statistics with computer applications; descriptive statistics, frequency distribution, probability, sampling distribution, estimation, and significance tests. and • A course that articulates with [CAN BUS 2], Financial Accounting and • A course that articulates with a second semester of expository writing that emphasizes exposition, research, and critical thinking, typically called “Writing and Critical Thinking” (as opposed to “Literature and Composition”) and • A course that articulates with [CSULA CIS 100], Business Computer Systems - A course that covers computer system fundamentals; computer hardware and software concepts; an introduction to microcomputer software. 	<p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p>
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for CSU Los Angeles	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
California Maritime Academy Campus-Specific Pattern

This campus does not have a major, concentration, or option in Economics.

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Monterey Bay Campus-Specific Pattern

This campus does not have a major, concentration, or option in Economics.

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Northridge Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Northridge campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <ul style="list-style-type: none"> • A course that articulates with [CSUN ACCT 220], Introduction to Financial Accounting - A course that covers the accounting process, accounting measurement issues, analyzing and recording financial transactions, accounting valuation and allocation issues, conceptual foundation for understanding financial reporting, the usefulness of financial statements for decision-making, and financial statement analysis and interpretation. and • A course that articulates with [CSUN BUS 105], Business Communication - A course that presents concepts and techniques for developing oral and written communications skills adapted to business situations across the functional areas. <p>And either:</p> <ul style="list-style-type: none"> • A course that articulates with [CSUN SOM 120], Basic Business Statistics - A course that covers descriptive statistics, elements of probability, probability distributions, sampling distributions, statistical inference for means and proportions, simple linear regression and correlation. or • A course that articulates with [CAN STAT 2], Introductory Statistics <p>And <u>one</u> course from the following:</p> <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 34], Calculus for Business Application or • A course that articulates with [CSUN MATH 150A], Mathematical Analysis I - A course that covers limits, derivatives, applications of differentiation; definite and indefinite integrals and the Fundamental Theorem of Calculus. or • A course that articulates with [CAN MATH 18], Calculus I 	<p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p>
<p>(2) Complete additional coursework to bring total to 60 transferable semester units.</p>	<p>0-15 units</p>
<p>Total Semester Units Required for CSU Northridge</p>	<p>15 units</p>

Economics
LOWER-DIVISION TRANSFER PATTERN
Cal Poly Pomona Campus-Specific Pattern

In addition to the statewide pattern, the following is the Cal Poly Pomona campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
(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 [CPP STAT 120], Statistics with Application - A course that covers collection and summarization of data; measures of central tendency and dispersion; probability; binomial and normal distributions, confidence intervals and hypothesis-testing. and • A course that articulates with [CPP ACC 207], Financial Accounting for Decision Making - An introduction to financial accounting and accounting information systems (AIS), and use of AIS-generated information, including financial statements in decision making by investor, creditors, and other users external to the organization. and • A course that articulates with [CPP ENG 105], Freshman English II - A course that covers the techniques of the research paper and develops experience in writing informative and persuasive papers, with emphasis on language and logic. 	<p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p>
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for Cal Poly Pomona	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Sacramento Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Sacramento campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
(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 STAT 2], Introduction to Statistics 	0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units. Calculus I for the Social and Life Sciences [CAN MATH 30] or Calculus I [CAN MATH 18] is recommended.	0-15 units
Total Semester Units Required for CSU Sacramento	15 units

computerized systems in business organizations, covering basic concepts of computer organization, data processing systems, decision support systems and systems analysis. and

One course from the following:

- A course that articulates with [SDSU ECON 201], **Statistical Methods - An introduction to descriptive statistics, statistical inference, regression and correlation.** or
- A course that articulates with [SDSU STAT 119], **Elementary Statistics for Business - A course that covers measures of central tendency and variability, frequency distributions; probability, Bayes theorem, probability distributions, sampling distributions, confidence intervals, significance testing, regression and correlation.** or

A course that articulates with [SDSU STAT 250], **Statistical Principles and Practices - A course that covers descriptive statistics, data displays, measures of central tendency and variable, random variables, sampling distribution; estimation and hypothesis tests for means and proportions, linear regression and correlation.**

IMPACTION CRITERIA

(2) This major is impacted at SDSU. Students must meet the following criteria:

- a. Complete the following courses with a grade of “C” or higher. These courses cannot be taken for credit/no credit (Cr/NC).
- A course that articulates with [SDSU ECON 101], **Principles of Economics - A course that covers principles of economic analysis, economic institutions, and issues of public policy, with emphasis on macroanalysis including national income analysis, money and banking, business cycles, and economic stabilization.** and
 - A course that articulates with [SDSU ECON 102], **Principles of Economics - A course that covers principles of economic analysis, economic institutions, and issues of public policy, with emphasis on direction of production, allocation of resources, international economics and distribution of income, through the price system (microanalysis).** and
 - A course that articulates with [SDSU ACCTG 201], **Financial Accounting Fundamentals** and
 - A course that articulates with [SDSU ECON 201], **Statistical Methods** or
A course that articulates with [SDSU STAT 119], **Elementary Statistics for Business** or
A course that articulates with [SDSU STAT 250], **Statistical Principles and Practices** and
 - A course that articulates with [SDSU IDS 180], **Principles of Information Systems** and
- One of the following:
- A course that articulates with [SDSU MATH 120], **Calculus for Business Analysis - A course that covers matrix algebra; calculus including differentiation and integration; graphing and optimization; exponential and logarithmic functions; and multivariable calculus.** or
 - A course that articulates with [SDSU MATH 121], **Calculus for the Life Sciences I - A course in the basic concepts of differential**

<p>calculus with life science applications. or</p> <ul style="list-style-type: none"> • A course that articulates with [SDSU MATH 150], Calculus I - A course that covers algebraic and transcendental functions; continuity and limits; the derivative and its applications; and the integral and the fundamental theorem of calculus. <p>b. Have a cumulative GPA of 2.40 or higher</p>	
<p>(3) If students have used any of the above listed courses for GE, and have not completed the 60 unit minimum requirement to transfer, then the following should be completed:</p> <ul style="list-style-type: none"> • The Economics major is a Liberal Arts and Sciences degree and requires students to meet the following language requirement: Competency in one foreign language (successfully completing the third college semester or fifth college quarter - or equivalent). 	
<p>(4) Complete additional coursework to bring total to 60 transferable semester units.</p>	0-15 units
Total Semester Units Required for San Diego State University	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
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	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <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 and • A course that articulates with [SFSU MATH 110], Business Calculus - Functions, derivatives, and applications of differentiation, including optimization. Problems involving business, finance, and economics. Elements of basic calculus. 	<p>0-3 units</p> <p>0-3 units</p> <p>0-3 units</p>
<p>(2) Complete additional coursework to bring total to 60 transferable semester units.</p>	6-15 units
Total Semester Units Required for San Francisco State University	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
San Jose State University Campus-Specific Pattern

In addition to the statewide pattern, the following is the San Jose State University campus-specific pattern for the **B.A. in Mathematics**:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete the following for the B.A.:</p> <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 12], Finite Mathematics and • A course that articulates with [CAN STAT 2, SJSU ECON 003], Economic Statistics - A course that covers elementary statistical analysis of economic data, probability theory, probability distributions, sampling, sampling distributions, estimation, hypothesis testing, simple linear regression, correlation and index numbers. (SJSU requires the completion of a 4 semester unit statistics course the equivalent of ECON 003. Students may meet this requirement by taking a 4 unit statistics course that has been articulated to ECON 003, or by taking CAN STAT 2 and by completing a 1 unit statistics lab course when they have matriculated to SJSU 	<p>0-3 units</p> <p>0-4 units</p>
<p>(2) Complete additional coursework to bring total to 60 transferable semester units. Financial Accounting [CAN BUS 2], Business Communication, or Business Writing are recommended.</p>	<p>0-15 units</p>
<p>Total Semester Units Required for San Jose State University</p>	<p>15 units</p>

In addition to the statewide pattern, the following is the San Jose State University campus-specific pattern for the **B.S. in Mathematics**:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete the following for the B.S.:</p> <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 12], Finite Mathematics and • A course that articulates with [CAN STAT 2, SJSU ECON 003], Economic Statistics - A course that articulates with, - A course that covers elementary statistical analysis of economic data, probability theory, probability distributions, sampling, sampling distributions, estimation, hypothesis testing, simple linear regression, correlation and index numbers. (SJSU requires the completion of a 4 semester unit statistics course the equivalent of ECON 003. Students may meet this requirement by taking a 4 unit statistics course that has been articulated to ECON 003, or by taking CAN STAT 2 and by completing a 1 unit statistics lab course when they have matriculated to SJSU.) 	<p>0-3 units</p> <p>0-4 units</p>
<p>For the B.S. also complete the following:</p> <ul style="list-style-type: none"> • A course that articulates with [SJSU MATH 071], Calculus for 	<p>0-3 units</p>

Business and Aviation - A course that covers functions and graphs, limits, continuity, differentiation, integration, partial differentiation with emphasis on business and economics applications. or <ul style="list-style-type: none"> • A course that articulates with [CAN MATH 18], Calculus I 	
(2) Complete additional coursework to bring total to 60 transferable semester units. Financial Accounting [CAN BUS 2], Business Communication, or Business Writing are recommended.	0-15 units
Total Semester Units Required for San Jose State University	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
Cal Poly San Luis Obispo Campus-Specific Pattern

In addition to the statewide pattern, the following is the Cal Poly San Luis Obispo campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
(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 [SLO MATH 221], Calculus for Business and Economics - A course that covers polynomial calculus for optimization and marginal analysis and elementary integration. and • A course that articulates with [SLO STAT 251], Statistical Inference I - A course that covers descriptive statistics; probability and counting rules; random variables and probability distributions; sampling distributions; large sample point and interval estimation of population parameters; large sample hypothesis tests for population means and proportions. and • A course that articulates with [SLO BUS 214], Financial Accounting - A course that teaches how to read and interpret financial statement information, with the study of financial reporting standards to provide an understanding of how financial transactions and events are reflected in financial statements. and • A course that articulates with [SLO BUS 215], Managerial Accounting - A course that covers applications of accounting for management decision-making, planning and control including cost behavior, budget preparation, performance reporting, motivational and behavioral considerations, and ethics. and • A course that articulates with [SLO BUS 207], Business Law - A course that covers the American legal system, contracts, agency, business organizations, and real property 	0-3 units 0-3 units 0-3 units 0-3 units 0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for Cal Poly San Luis Obispo	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU San Marcos Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU San Marcos campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
(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 [CSUSM MATH 132], Survey of Calculus - A course that covers basic calculus concepts with applications to business, economics, and the social sciences; differential calculus for algebraic, exponential, and logarithmic functions; optimization, linearization, and other applications of derivatives. 	0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for CSU San Marcos	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
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	Semester Unit Requirement
(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 STAT 2], Introduction to Statistics 	0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for Sonoma State University	15 units

Economics
LOWER-DIVISION TRANSFER PATTERN
CSU Stanislaus Campus-Specific Pattern

In addition to the statewide pattern, the following is the CSU Stanislaus campus-specific pattern:

Campus-Specific Pattern	Semester Unit Requirement
<p>(1) If not taken as part of the statewide pattern (including general education and/or major preparation requirements), complete:</p> <ul style="list-style-type: none"> • A course that articulates with [CSUST MATH 1000], Excursions in Mathematics - An introductory course that provides an overview of contemporary mathematics, emphasizing mathematics as used in real life problems and with topics that may include elementary number theory, metric system, geometry, probability, statistics, power of the pocket calculator, and computers. 	0-3 units
(2) Complete additional coursework to bring total to 60 transferable semester units.	0-15 units
Total Semester Units Required for CSU Stanislaus	15 units