

## 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).

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 (see <http://www.calstate.edu/AR/impactioninfo.shtml>). These curricular guidelines are subject to change.

CSU Statewide Pattern	Semester Unit Requirement
<p><b>(1) Complete lower-division general education requirements.</b></p> <p>Obtain a certification of completion of CSU GE Breadth or IGETC by the California Community College before transferring to a CSU campus. While completing general education, follow the course pattern stated below.</p> <p><i>A minimum grade of C is required in courses used to meet CSU GE Breadth AREAS A and B4.</i>  <i>A minimum grade of C is required in each course used for IGETC.</i></p>	<p><b>39 units for CSU GE Breadth</b>  <i>or</i>  <b>37 units for IGETC</b></p>
<p><b>(2) Complete the graduation requirements in United States History, Constitution, and American Ideals.</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><b>0-6 units</b></p>
<p><b>(3) Complete Principles of Macroeconomics, [CAN ECON 2].</b></p>	<p><b>0-3 units</b></p>
<p><b>(4) Complete the Principles of Microeconomics, [CAN ECON 4].</b></p>	<p><b>0-3 units</b></p>
<p><b>Total Semester Units Required for Statewide LDTP Pattern</b></p>	<p><b>37-54 units</b></p>

**Economics**  
**LOWER-DIVISION TRANSFER PATTERN**  
**CSU Bakersfield Campus-Specific Pattern**

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

Campus-Specific Pattern	Semester Unit Requirement
<p><b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUB ECON 201], Essentials of Microeconomics</b> - Value and distribution theory, including the theory of household behavior, the theory of the firm, and the pricing of factors of production. <u>And</u></li> <li>• <b>A course that articulates with [CSUB ECON 202], Essentials of Macroeconomics</b> - Theories of income, employment, and price level. Both the income-expenditure approach and the monetarist approach are studied. <u>And</u></li> <li>• <b>A course that articulates with [CSUB MATH 140], Elementary Statistics -</b> Descriptions of sample data; exploratory data analysis; elementary probability; binomial, normal, t-, F- and other distributions; estimation and hypothesis testing techniques; non-parametric methods; linear regression and correlation; analysis of variance and chi-square tests.</li> </ul>	<p><b>0-4 units</b></p> <p><b>0-4 units</b></p> <p><b>0-4 units</b></p>
<p><b>(2) If not taken as part of the statewide pattern complete at least <u>one</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUB MATH 101], Finite Mathematics -</b> Mathematical topics for business; social, and life sciences selected from logic; set theory; combinatorics; statistics; matrix algebra; linear programming; Markov chains; analytic geometry; graph theory; and mathematics of finance. <u>Or</u></li> <li>• <b>A course that articulates with [CSUB MATH 120], Introduction to Quantitative Methods in Business -</b> A course that covers matrix algebra and systems of equations, analytic geometry, basic concepts of differential calculus and introduction to integral calculus, with applications from the areas of business and economics. <u>Or</u></li> <li>• <b>A course that articulates with [CSUB MATH 190], Pre-calculus I: Intermediate and College Algebra -</b> Covers a review of intermediate algebra including operations with polynomials and radicals, and absolute value. <u>Or</u></li> <li>• <b>A course that articulates with [CSUB MATH 191], Pre-calculus I: College Algebra -</b> The algebraic and graphical analysis of polynomial, rational, logarithmic, and exponential functions and their applications.</li> </ul>	<p><b>0-5 units</b></p>
<p><b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b></p>	

In addition to the statewide pattern, the following is the CSU Bakersfield campus-specific pattern for the B.S. in Economics:

Campus-Specific Pattern	Semester Unit Requirement
<p><b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUB ECON 201], Essentials of Microeconomics</b> - Value and distribution theory, including the theory of household behavior, the theory of the firm, and the pricing of factors of production. <u>And</u></li> <li>• <b>A course that articulates with [CSUB ECON 202], Essentials of Macroeconomics</b> - Theories of income, employment, and price level. Both the income-expenditure approach and the monetarist approach are studied. <u>And</u></li> <li>• <b>A course that articulates with [CSUB MATH 140], Elementary Statistics -</b> Descriptions of sample data; exploratory data analysis; elementary probability; binomial, normal, t-, F- and other distributions; estimation and hypothesis testing techniques; non-parametric methods; linear regression and correlation; analysis of variance and chi-square tests. <u>And</u></li> <li>• <b>A course that articulates with [CSUB MIS 200A], Software Productivity Tools -</b> This course examines software productivity tools.</li> </ul>	<p><b>0-4 units</b></p> <p><b>0-4 units</b></p> <p><b>0-4 units</b></p> <p><b>0-1 units</b></p>

<p><b>(2) If not taken as part of the statewide pattern complete at least <u>one</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUB MATH 101], Finite Mathematics -</b> Mathematical topics for business; social, and life sciences selected from logic; set theory; combinatorics; statistics; matrix algebra; linear programming; Markov chains; analytic geometry; graph theory; and mathematics of finance. <u>Or</u></li> <li>• <b>A course that articulates with [CSUB MATH 120], Introduction to Quantitative Methods in Business -</b> A course that covers matrix algebra and systems of equations, analytic geometry, basic concepts of differential calculus and introduction to integral calculus, with applications from the areas of business and economics. <u>Or</u></li> <li>• <b>A course that articulates with [CSUB MATH 190], Pre-calculus I: Intermediate and College Algebra -</b> Covers a review of intermediate algebra including operations with polynomials and radicals, and absolute value. <u>Or</u></li> <li>• <b>A course that articulates with [CSUB MATH 191], Pre-calculus I: College Algebra -</b> The algebraic and graphical analysis of polynomial, rational, logarithmic, and exponential functions and their applications.</li> </ul>	<b>0-4 units</b>
<p><b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b></p>	

## Economics

### LOWER-DIVISION TRANSFER PATTERN

### CSU Channel Islands Campus-Specific Pattern

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 General Economics or Managerial Economics:

Campus-Specific Pattern	Semester Unit Requirement
<p><b>(1) If not taken as part of the statewide pattern complete <u>one</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>Coursework that articulates with [ CSUCI MATH 140], Calculus for Business Applications -</b> 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. <u>Or</u></li> <li>• <b>Coursework that articulates with [CSUCI MATH 150], Calculus I.</b></li> </ul>	<b>0-4 units</b>
<p><b>(2) If not taken as part of the statewide pattern complete the following:</b></p> <ul style="list-style-type: none"> <li>• <b>Coursework that articulates with [CSUCI ACCT 210], Financial Accounting.</b></li> </ul>	<b>0-3 units</b>
<p><b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units</b></p>	

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 Environmental Resource Economics:

Campus-Specific Pattern	Semester Unit Requirement
<p><b>(1) If not taken as part of the statewide pattern complete <u>one</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>Coursework that articulates with [CSUCI MATH 140], Calculus for Business Applications -</b> 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. <u>Or</u></li> <li>• <b>Coursework that articulates with [CSUCI MATH 150], Calculus I.</b></li> </ul>	<b>0-4 units</b>
<p><b>(2) If not taken as part of the statewide pattern complete the following:</b></p> <ul style="list-style-type: none"> <li>• <b>Coursework that articulates with [CSUCI ESRM 100], Introduction to Environmental Science and Resource Management.</b></li> </ul>	<b>0-3 units</b>
<p><b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units</b></p>	

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 complete <u>one</u> of the following: <ul style="list-style-type: none"> <li>Coursework that articulates with [ CSUCI MATH 140], <b>Calculus for Business Applications</b> – 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. <u>Or</u></li> <li>Coursework that articulates with [CSUCI MATH 150], <b>Calculus I</b>.</li> </ul>	0-4 units
(2) If not taken as part of the statewide pattern complete <u>two</u> of the following: <ul style="list-style-type: none"> <li>Coursework in the same foreign language.</li> </ul>	0-6 units
(3) If necessary, complete additional coursework to bring total to 60 transferable semester 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 complete <u>all</u> of the following: <ul style="list-style-type: none"> <li>Coursework that articulates with [CSUCI MATH 150 &amp; 151], <b>Calculus I and II</b>. <u>And</u></li> <li>Coursework that articulates with [CSUCI MATH 240], <b>Linear Algebra</b>. <u>And</u></li> <li>Coursework that articulates with [CSUCI MATH 250], <b>Calculus III</b>.</li> </ul>	0-8 units 0-3 units 0-3 units
(2) If necessary, complete additional coursework to bring total to 60 transferable semester 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
(1) If not taken as part of the statewide pattern complete at least <u>one</u> of the following: <ul style="list-style-type: none"> <li>A course that articulates with [CSUC MATH 120], <b>Analytic Geometry and Calculus</b>. <u>Or</u></li> <li>A course that articulates with [CSUC MATH 109 or TCSU MATH 270], <b>Calculus for the Life and Social Sciences</b>.</li> </ul>	0-3 units
(2) If not taken as part of the statewide pattern complete at least <u>one</u> of the following: <ul style="list-style-type: none"> <li>A course that articulates with [CSUC BADM 103], <b>Statistics of Business and Economics</b> - 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. <u>Or</u></li> <li>A course that articulates with [CSUC MATH 105], <b>Statistics</b>.</li> </ul>	0-3 units
(3) If not taken as part of the statewide pattern complete at least <u>one</u> of the following: <ul style="list-style-type: none"> <li>A course that articulates with [CSUC CINS 110], <b>Introduction to Applications Programming</b> - 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. <u>Or</u></li> <li>A course that articulates with [TCSU IS 120], <b>Business Information Systems</b>. <u>Or</u></li> <li>A course that articulates with [CSUC SOSC 210], <b>Computer Survival Skills</b> – A skills-based course in the basics of computer hardware and software. Students learn</li> </ul>	0-3 units

to use research and analytic tools needed to meet the demands of upper-division course work and to create professional presentations and Web content using electronic and conventional source materials in a safe and responsible manner. In addition to basic skills, through extensive use of the Internet this course puts the social world at the student's fingertips with retrieval and analysis of survey data, exploration of the world using the latest in GIS technology, and participation in online collaborative communities appropriate to the social sciences.

**(4) If necessary, complete additional coursework to bring total to 60 transferable semester units.**

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

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

## 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
<b>(1) If not taken as part of the statewide pattern complete <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB STAT 1000], <b>Elements of Probability and Statistics.</b> <u>Or</u></li> <li>• A course that articulates with [CSUEB STAT 2010], <b>Elements of Statistics for Business and Economics.</b></li> </ul>	0-3 units
<b>(2) If not taken as part of the statewide pattern, complete <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB MATH 1810], <b>Mathematics for Business and Social Sciences I.</b> <u>Or</u></li> <li>• A course that articulates with [CSUEB MATH 1304], <b>Calculus I.</b> <i>Students considering graduate school in economics should take Calculus I.</i></li> </ul>	0-3 units
<b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

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

Campus-Specific Pattern	Semester Unit Requirement
<b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB ACCT 2251], <b>Financial Accounting.</b> <u>And</u></li> <li>• A course that articulates with [CSUEB ACCT 2253], <b>Managerial Accounting.</b></li> </ul>	0-3 units 0-3 units
<b>(2) If not taken as part of the statewide pattern complete <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB STAT 1000], <b>Elements of Probability and Statistics.</b> <u>Or</u></li> <li>• A course that articulates with [CSUEB STAT 2010], <b>Elements of Statistics for Business and Economics.</b></li> </ul>	0-3 units
<b>(3) If not taken as part of the statewide pattern complete <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB MATH 1810], <b>Mathematics for Business and Social Sciences I.</b> <u>Or</u></li> <li>• A course that articulates with [CSUEB Math 1304], <b>Calculus I.</b></li> </ul>	0-3 units

**(4) If necessary, complete additional coursework to bring total to 60 transferable semester units.**

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

Campus-Specific Pattern	Semester Unit Requirement
<b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB MATH 1130], <b>College Algebra</b>. <u>And</u></li> <li>• A course that articulates with [CSUEB SOC 1000], <b>Introduction to Sociology</b>.</li> </ul>	0-3 units 0-3 units
<b>(2) If not taken as part of the statewide pattern complete <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB STAT 1000], <b>Elements of Probability and Statistics</b>. <u>Or</u></li> <li>• A course that articulates with [CSUEB STAT 2010], <b>Elements of Statistics for Business and Economics</b>.</li> </ul>	0-3 units
<b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

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

Campus-Specific Pattern	Semester Unit Requirement
<b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUEB Math 1304], <b>Calculus I</b>. <u>And</u></li> <li>• A course that articulates with [CSUEB Math 1305], <b>Calculus II</b>.</li> </ul>	0-3 units 0-3 units
<b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

### 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 for the B.A. in Economics:

Campus-Specific Pattern
<b>(1) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>
<i>Recommended Coursework:</i> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUF MATH 11], <b>Statistics</b>.</li> </ul>

### 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
<b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUF ACCT 201A], <b>Financial Accounting</b>. <u>And</u></li> <li>• A course that articulates with [CSUF BUAD 201], <b>Business Writing Business Administration</b> - A course that covers core communication practices: routing business correspondence, positive, informative, negative, persuasive messages.</li> </ul>	0-3 units 0-3 units

<p><u>And</u></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUF ISDS 265], Introduction to Computing and Application Software</b> - An introduction to computer concepts, computer organization, operation, hardware, systems and application software; business problem-solving and computer programming; applications to business.</li> </ul>	<b>0-3 units</b>
<p><b>(2) If not taken as part of the statewide pattern complete at least one of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUF MATH 130], Calculus for the Life and Social Science.</b> <u>Or</u></li> <li>• <b>A course that articulates with [CSUF MATH 135], Calculus for Business.</b> <u>Or</u></li> <li>• <b>A course that articulates with [CSUF MATH 150A], Calculus, 1st Semester.</b></li> </ul>	<b>0-3 units</b>
<p><b>(3) If not taken as part of the statewide pattern complete at least one of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUF ACCT 201B], Managerial Accounting.</b> <u>Or</u></li> <li>• <b>A course that articulates with [CSUF MATH 150B], Calculus, 2nd Semester.</b></li> </ul>	<b>0-3 units</b>
<b>(4) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

**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:

<b>Campus-Specific Pattern</b>	<b>Semester Unit Requirement</b>
<p><b>(1) If not taken as part of the statewide pattern complete at least one of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [HSU MATH 106], Calculus for Business and Economics</b> - A course that covers logarithmic and exponential functions; derivatives, integrals; velocity, curve sketching, area; marginal cost, revenue, and profit, consumer savings; present value. <u>Or</u></li> <li>• <b>A course that articulates with [HSU MATH 115], Algebra and Elementary Functions</b> - 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. <u>Or</u></li> <li>• <b>A course that articulates with [HSU MATH 109], Calculus I.</b></li> </ul>	<b>0-3 units</b>
<p><b>(2) If not taken as part of the statewide pattern complete at least one of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [HSU BA 232], Introductory Statistics</b> - A course that covers elementary statistical methods for business/economic analysis; descriptive statistics, inference, correlation and regression, index numbers, probability, time series analysis. <u>Or</u></li> <li>• <b>A course that articulates with [HSU STAT 108], Elementary Statistics.</b></li> </ul>	<b>0-4 units</b>
<b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

**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 for the B.A. in Economics:

<b>Campus-Specific Pattern</b>	<b>Semester Unit Requirement</b>
<p><b>(1) If not taken as part of the statewide pattern, complete the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSULB ACCT 201], Elementary Financial Accounting.</b></li> </ul>	<b>0-3 units</b>

(2) If not taken as part of the statewide pattern, complete <u>one</u> of the following: <ul style="list-style-type: none"> <li>• A course that articulates with [CSULB MATH 115], <b>Calculus for Business.</b> <u>Or</u></li> <li>• A course that articulates with [CSULB MATH 122], <b>Calculus I.</b></li> </ul>	<b>3-4 units</b>
<b>(3) If necessary complete additional coursework to bring total to 60 transferable semester units.</b>	

**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
(1) If not taken as part of the statewide pattern complete <u>all</u> of the following: <ul style="list-style-type: none"> <li>• A course that articulates with [CSULA MATH 206 or MATH 242], <b>Calculus for Business.</b> <u>And</u></li> <li>• A course that articulates with [CSULA ECON 209], <b>Applied Business and Economic Statistics I</b> - A course that covers elementary business and economics statistics with computer applications; descriptive statistics, frequency distribution, probability, sampling distribution, estimation, and significance tests. <u>And</u></li> <li>• A course that articulates with [CAN ACCT 210], <b>Financial Accounting.</b> <u>And</u></li> <li>• 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"). <u>And</u></li> <li>• A course that articulates with [CSULA CIS 100], <b>Business Computer Systems</b> - A course that covers computer system fundamentals; computer hardware and software concepts; an introduction to microcomputer software.</li> </ul>	<b>0-3 units</b>  <b>0-3 units</b>  <b>0-3 units</b> <b>0-3 units</b>  <b>0-3 units</b>
<b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

**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
<b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUN ACCT 220], <b>Introduction to Financial Accounting.</b> <u>And</u></li> <li>• A course that articulates with [CSUN ENGL 205], <b>Business Communications in its Rhetorical Contexts.</b></li> </ul>	0-3 units
<b>(2) If not taken as part of the statewide pattern complete at least <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUN SOM 120], <b>Business Statistics.</b> <u>Or</u></li> <li>• A course that articulates with [CSUN MATH 140], <b>Introductory Statistics.</b></li> </ul>	0-3 units
<b>(3) If not taken as part of the statewide pattern complete at least <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CSUN MATH 103], <b>Mathematical Methods for Business.</b> <u>Or</u></li> <li>• A course that articulates with [CSUN MATH 150A], <b>Calculus I.</b> <u>Or</u></li> <li>• A course that articulates with [CSUN MATH 255A], <b>Calculus for the Life Sciences I.</b></li> </ul>	0-3 units
<b>(4) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>  <i>A minimum grade of C is necessary in all coursework used to meet requirements within this pattern.</i>	

**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 for the B.S. in Economics:

Campus-Specific Pattern	Semester Unit Requirement
<b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b> <ul style="list-style-type: none"> <li>• A course that articulates with [CPP STA 120], <b>Statistics with Applications</b> - 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. <u>And</u></li> <li>• A course that articulates with [CPP ACC 207/207A], <b>Financial Accounting for Decision Making</b> - 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. <u>And</u></li> <li>• A course that articulates with [CPP ENG 105], <b>Freshman English II</b> - 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.</li> </ul>	0-3 units
	0-3 units
	0-3 units
<b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

**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 complete the following: <ul style="list-style-type: none"> <li>• A course that articulates with [CSUS STAT 1], Introduction to Statistics.</li> </ul>	0-3 units
(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.	
<i>Recommended coursework:</i>	
<ul style="list-style-type: none"> <li>• A course that articulates with [CSUS MATH 26A], Calculus I for the Social and Life Sciences. <u>Or</u></li> <li>• A course that articulates with [CSUS MATH 30], Calculus I.</li> </ul>	

**Economics**  
**LOWER-DIVISION TRANSFER PATTERN**  
**CSU San Bernardino Campus-Specific Pattern**

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

Campus-Specific Pattern	Semester Unit Requirement
(1) If not taken as part of the statewide pattern complete at least <u>one</u> of the following: <ul style="list-style-type: none"> <li>• A course that articulates with [CSUSB MATH 110], College Algebra. <u>Or</u></li> <li>• A course that articulates with [CSUSB MATH 120], Pre-Calculus. <u>Or</u></li> <li>• A course that articulates with [CSUSB MATH 192], Methods of Calculus. <u>Or</u></li> <li>• A course that articulates with [CSULB MATH 211], Basic Concepts of Calculus.</li> </ul>	0-3 units
(2) If not taken as part of the statewide pattern complete at least <u>one</u> of the following: <ul style="list-style-type: none"> <li>• A course that articulates with [CSUSB SCM 210], Business Statistics - An introduction to statistical reasoning and application of primary statistical techniques used in solving managerial problems, covering both descriptive and inferential statistics. <u>Or</u></li> <li>• A course that articulates with [CSUSB ECON 250], Statistics for Economists - An introduction to the statistical tools and data used by economists.</li> </ul>	0-3 units
(3) If necessary, complete additional coursework to bring total to 60 transferable semester units.	

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

In addition to the statewide pattern, the following is the San Diego State University campus-specific pattern. The B.A. in Economics is an impacted major. The below information does not represent any guarantee with regard to admission nor does it include or replace SDSU's campus admissions impaction criteria. Please refer to <http://www.calstate.edu/AR/impactioninfo.shtml> for SDSU's impaction criteria.

Campus-Specific Pattern	Semester Unit Requirement
(1) If not taken as part of the statewide pattern, complete <u>all</u> of the following: <ul style="list-style-type: none"> <li>• A course that articulates with [SDSU ACCTG 201], Financial Accounting</li> </ul>	0-3 units

<p><b>Fundamentals</b> - A course that covers the theory and practice of accounting applicable to recording, summarizing, and reporting of business transactions for external reporting and other external uses. Asset valuation; revenue and expense recognition; various asset, liability, and capital accounts. <u>And</u></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SDSU IDS 180], Principles of Information Systems</b> - A course in the applications of computerized systems in business organizations. Basic concepts of computer organization, data processing systems, decision support systems and systems analysis. Solving business problems through use of spreadsheet software. <u>And</u></li> <li>• <b>A course that articulates with [SDSU SOC 200A], Introduction to SPSS</b> - Use of computer package SPSS to organize and modify numerical data. Selected procedures include data file creation, frequency, and descriptive statistics, graphs and charts, cross tabulation, t-tests, one-way ANOVA, correlation, and regression.</li> </ul>	<p><b>0-3 units</b></p> <p><b>0-1 units</b></p>
<p><b>(2) If not taken as part of the statewide pattern, complete <u>one</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SDSU MATH 120], Calculus for Business Analysis.</b> <u>Or</u></li> <li>• <b>A course that articulates with [SDSU MATH 121], Calculus for the Life Sciences I.</b> <u>Or</u></li> <li>• <b>A course that articulates with [SDSU MATH 150], Calculus I.</b></li> </ul>	<p><b>0-3 units</b></p>
<p><b>(3) If not taken as part of the statewide pattern, complete <u>one</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SDSU ECON 201], Statistical Methods - Introduction to descriptive statistics, statistical inference, regression and correlation.</b> <u>Or</u></li> <li>• <b>A course that articulates with [SDSU STAT 119], Elementary Statistics for Business</b> - Measures of central tendency and variability, frequency distributions; probability, Bayes theorem, probability distributions (including binomial, hypergeometric, and normal), sampling distributions, confidence intervals, significance testing, regression and correlation. <u>Or</u></li> <li>• <b>A course that articulates with [SDSU STAT 250], Statistical Principles and Practices</b> - A course that covers descriptive statistics, data displays, measures of central tendency and variability, random variables, sampling distribution. Estimation and hypothesis tests for means and proportions, linear regression and correlation.</li> </ul>	<p><b>0-3 units</b></p>
<p><b>(4) The Economics major is a Liberal Arts and Sciences degree and requires students to meet the following language requirement:</b></p> <ul style="list-style-type: none"> <li>• <b>Competency (successfully completing the third college semester or fifth college quarter - or equivalent) is required in one foreign language.</b></li> </ul>	<p><b>0-12 units</b></p>
<p><b>(5) If necessary, complete additional coursework to bring total to 60 (but not more than 70) transferable semester units. Coursework not taken at the community college must be completed at SDSU.</b></p>	

**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><b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SFSU ENG 114], College Composition, 1st semester</b> - Training in expository-argumentative composition, emphasizing work on clear and effective sentences and the organization and development of paragraph and essay. <u>And</u></li> <li>• <b>A course that articulates with [SFSU ENG 214], College Composition and Literature, 2nd semester</b> - Expository-argumentative composition and critical reading skills through the study of literature; special attention to logic, style, and rhetoric. <u>And</u></li> </ul>	<p><b>0-3 units</b></p> <p><b>0-3 units</b></p>

<ul style="list-style-type: none"> <li>• <b>A course that articulates with [SFSU MATH 226], Calculus I – Graphs;</b> differentiation: theory, techniques, and applications. Integration, fundamental theorem of calculus, applications of integration, transcendental functions. <i>A minimum grade of C is necessary in all courses used to meet these requirements.</i></li> </ul>	<b>0-4 units</b>
<b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

## Economics

### LOWER-DIVISION TRANSFER PATTERN

### San José State University Campus-Specific Pattern

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

Campus-Specific Pattern	Semester Unit Requirement
<p><b>(1) If not taken as part of the statewide pattern, complete courses from the following to bring total up to 60, and not more than 70 transferable semester units:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SJSU ENGL 001B], Composition 2,</b> or an equivalent 2nd Semester English Composition course approved for IGETC Area 1B. <i>Minimum grade of C or higher is required in courses used to meet this requirement.</i> <u>And</u></li> <li>• <b>Physical Activity</b> (2 units, taken from at least 2 different activities). <u>And</u></li> <li>• <b>A course that articulates with [SJSU MATH 070], Finite Mathematics.</b> <i>A minimum grade of C or higher is required in courses used to meet this requirement.</i> <u>And</u></li> <li>• <b>A course that articulates with [SJSU ECON 003], Economic Statistics.</b> <i>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 SJSU STAT 95 and by completing a 1 unit statistics lab course when they have matriculated to SJSU.</i></li> </ul>	<p><b>0-3 units</b></p> <p><b>0-2 units</b></p> <p><b>0-3 units</b></p> <p><b>0-4 units</b></p>
<p><b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b></p> <p><u>Recommended coursework:</u></p> <ul style="list-style-type: none"> <li>• <i>A course that articulates with [SJSU BUS 020], Financial Accounting. Or</i></li> <li>• <i>Any other courses in Economics. Or</i></li> <li>• <i>Any courses in the Social Sciences, Business, the Sciences, or in Oral &amp; Written Communication.</i></li> </ul> <p><i>Note: The Economics department encourages students to use these ANY course electives to strengthen economic understanding by taking other available lower division Economics courses or to create their own area of specialization in areas such as pre-law, accounting, communications, statistical analysis.</i></p>	

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

Campus-Specific Pattern	Semester Unit Requirement
<p><b>(1) If not taken as part of the statewide pattern, complete courses from the following to bring total up to 60, and not more than 70 transferable semester units:</b></p> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SJSU ENGL 001B], Composition 2,</b> or an equivalent 2nd Semester English Composition course approved for IGETC Area 1B. <i>Minimum grade of C or higher is required in courses used to meet this requirement.</i> <u>And</u></li> <li>• <b>Physical Activity</b> (2 units, taken from at least 2 different activities). <u>And</u></li> <li>• <b>A course that articulates with [SJSU MATH 070], Finite Mathematics.</b> <i>A minimum grade of C or higher is required in courses used to meet this requirement.</i> <u>And</u></li> <li>• <b>A course that articulates with [SJSU ECON 003], Economic Statistics.</b> <i>SJSU requires the completion of a 4 semester unit statistics course the equivalent of ECON</i></li> </ul>	<p><b>0-3 units</b></p> <p><b>0-2 units</b></p> <p><b>0-3 units</b></p> <p><b>0-4 units</b></p>

003. Students may meet this requirement by taking a 4 unit statistics course that has been articulated to ECON 003, or by taking SJSU STAT 95 and by completing a 1 unit statistics lab course when they have matriculated to SJSU.	
<b>(2) If not taken as part of the statewide pattern complete <u>one</u> of the following:</b> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SJSU MATH 071], Calculus for Business and Aviation.</b> A minimum grade of C or higher is required in courses used to meet this requirement. <u>Or</u></li> <li>• <b>A course that articulates with [SJSU MATH 030], Calculus I.</b> A minimum grade of C or higher is required in courses used to meet this requirement.</li> </ul>	<b>0-3 units</b>
<b>(3) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b> <u>Recommended coursework:</u> <ul style="list-style-type: none"> <li>• A course that articulates with [SJSU BUS 020], Financial Accounting.</li> </ul> At least <u>one</u> of the following courses: <ul style="list-style-type: none"> <li>• Any other courses in Economics. <u>Or</u></li> <li>• Any courses in the Social Sciences, Business, the Sciences, or in Oral &amp; Written Communication.</li> </ul> <i>Note: The Economics department encourages students to use these ANY course electives to strengthen economic understanding by taking other available lower division Economics courses or to create their own area of specialization in areas such as pre-law, accounting, communications, statistical analysis.</i>	

**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
<b>(1) If not taken as part of the statewide pattern complete <u>all</u> of the following:</b> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [SLO MATH 221], Calculus for Business and Economics.</b> <u>And</u></li> <li>• <b>A course that articulates with [SLO STAT 251], Statistical Inference for Management I.</b> <u>And</u></li> <li>• <b>A course that articulates with [SLO BUS 214], Financial Accounting.</b> <u>And</u></li> <li>• <b>A course that articulates with [SLO BUS 215], Managerial Accounting.</b> <u>And</u></li> <li>• <b>A course that articulates with [SLO BUS 207], Legal Responsibilities of Business.</b></li> </ul>	<b>0-3 units</b>  <b>0-3 units</b>  <b>0-3 units</b> <b>0-3 units</b> <b>0-3 units</b>
<b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

**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
<b>(1) If not taken as part of the statewide pattern complete the following:</b> <ul style="list-style-type: none"> <li>• <b>A course that articulates with [CSUSM MATH 132], Survey of Calculus -</b> 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.</li> </ul>	<b>0-3 units</b>

**(2) If necessary, complete additional coursework to bring total to 60 transferable semester 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
<b>(1) If not taken as part of the statewide pattern complete the following:</b> <ul style="list-style-type: none"><li>• <b>A course that articulates with [CAN STAT 2], Introduction to Statistics.</b></li></ul>	<b>0-3 units</b>
<b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	

**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
<b>(1) If not taken as part of the statewide pattern complete the following:</b> <ul style="list-style-type: none"><li>• <b>A course that articulates with [CSUST MATH 1000], Excursions in Mathematics -</b> 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.</li></ul>	<b>0-3 units</b>
<b>(2) If necessary, complete additional coursework to bring total to 60 transferable semester units.</b>	
<u>Recommended Coursework:</u> <ul style="list-style-type: none"><li>• <i>A course that articulates with [CSUST MATH 1610], Statistics.</i></li></ul>	