Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: California State University, Los Angeles 2022-2023 General Catalog, Semester	From: Ventura College 2022-2023 General Catalog, Semester

Computer Science - B.S.

ADMISSIONS CRITERIA FOR MAJOR

Major Specific Criteria for Transfer Admission

GENERAL INFORMATION FOR ALL TRANSFER STUDENTS

Cal State LA	General Education Lower Division Courses
Cal State Apply	Department of Computer Science
Degree with a Guarantee	ECST Academic Advising
University Catalog	College of Engineering, Computer Science, and Technol

COMPUTER SCIENCE - BS

The objective of the Bachelor of Science degree in Computer Science is to prepare qualified students for careers involving the design of computer systems and their applications to science and industry. The program provides an excellent foundation in all core areas of computer science with the opportunity to choose electives in a variety of specialized fields.

Requirements for the Major

- The total number of units required for the Bachelor of Science degree in Computer Science is 120 units, of which 93 units are in the major.
- Computer Science students are required to take 48 units of General Education (GE) of which 21 units are met by courses in the major. Consult with an advisor in the department for the specific number of units required in all areas of the degree, including GE and free electives.

LOWER DIVISION GENERAL EDUCATION REQUIREMENTS

Lower Division General Education Requirements (39 units)

Block A - English Language Communication and Critical Thinking Courses (9 units):

- A1 Oral Communication (3)
- A2 Written Communication (3) - Must take ENGL 1010 (3)
- A3 Critical Thinking and Composition (3)
  - Critical Thinking - Met by CS 2011 (4), CS 3801 (3), CS 3337 (3), CS 3186 (3), CS 4961 (3), and CS 4962 (3)
  - 2nd Composition - Met by Met by ENGL 2030 (3)

Block B - Natural Science and Math/Quantitative Reasoning Courses (9 units):

- B1 Physical Science (3) - Met by PHYS 2100 (5)
- B2 or B3 Biological science (3) or Interdisciplinary Science (3)
- B4 Quantitative Reasoning and Mathematical Concepts (3) - Met by MATH 2110 (4)

Block C - Arts and Humanities Courses (9 units):

- American Institutions - US History (3)
- C1 Arts (3)
- C2 Humanities (3) - Met by CS 3801 (3)

Block D - Social Science Courses (9 units):

- American Institutions - US Constitution and State/Local Govt. (3)
- Social Science (6 units)

Block E - Lifelong Understanding and Self-Development Courses (3 units):

- Met by CS 1010 (3), also satisfied LD (cl) and IHE

DIVERSITY REQUIREMENT FOR CAL STATE LA GRADUATION

The articulation information in Assist.org not only shows a link to the admission requirements (aka our **Major Specific Criteria** webpage) but also Cal State LA graduation requirements that may be completed at the lower-division level, prior to transferring to the University. The diversity requirement is a **graduation requirement**, not an admission requirement. The diversity requirement may be completed prior to, or after, transferring to the University.

For the Cal State LA degree, students will be required to complete **two courses (six units)** certified as diversity courses, at least one focusing on issues of race and ethnicity and their intersectionality with other social categories that structure inequality in society. These courses can be completed either at the lower division or upper-division level from among courses satisfying GE requirements.

Please see the **Requirement Information** sections below for the lower-division courses that will meet the Diversity and Race & Ethnicity Requirements.

LOWER DIVISION REQUIRED COURSES

Minimum grade required: C or better		
CS 1222 - Introduction to Relational Databases (3.00)	←	No Course Articulated
CS 2011 - Introduction to Programming I (3.00)	←	**CS V40** - Beginning Java (3.00)
		--- Or ---
		CS V30 - Beginning C++ (3.00)
CS 2012 - Introduction to Programming II (3.00)	←	**CS V13** - Object-Oriented Programming (3.00)
		--- Or ---
		CS V42 - Intermediate Java (3.00)
CS 2013 - Programming with Data Structures (3.00)	←	**CS V15** - Data Structures and Algorithms (3.00)
CS 2148 - Discrete Structures (3.00)	←	**CS V17** - Discrete Structures (3.00) Same-As: MATH V52
		MATH V52 - Discrete Structures (3.00) Same-As: CS V17
CS 2445 - Introduction to Computer Systems (3.00)	←	No Course Articulated
CS 2470 - Fundamentals of Network Systems and Cybersecurity (3.00)	←	No Course Articulated
ENGL 2030 - Introduction to Technical Writing (3.00)	←	No Course Articulated
MATH 2110 - Calculus I (4.00)	←	**MATH V21A** - Calculus with Analytic Geometry I (5.00)
		--- And ---
		MATH V21B - Calculus with Analytic Geometry II (5.00)
MATH 2120 - Calculus II (4.00)	←	**MATH V21A** - Calculus with Analytic Geometry I (5.00)
		--- And ---
		MATH V21B - Calculus with Analytic Geometry II (5.00)
MATH 2550 - Introduction to Linear Algebra (3.00)	←	**MATH V22** - Introduction to Linear Algebra (3.00)
PHYS 2100 - General Physics I: Mechanics (5.00)	←	**PHYS V04** - Mechanics for Scientists and Engineers (4.00)
		--- And ---
		PHYS V04L - Mechanics Laboratory for Scientists and Engineers (1.00)

DIVERSITY COURSES FOR CAL STATE LA GRADUATION REQUIREMENT

REFER TO TOP OF AGREEMENT		
AAAS 1600 - History of Asia (3.00) Same-As: HIST 1600	←	No Course Articulated
AAAS 1700 - Understanding Contemporary Asia (3.00)	←	No Course Articulated
AAAS 2000 - Pacific Asian Culture, People, & Society (3.00)	←	No Course Articulated
ANTH 1001 - Where in the World of Education at CSULA are You? (3.00)	←	No Course Articulated
ANTH 1500 - Introduction to Cultural Anthropology (3.00)	←	**ANTH V02** - Cultural Anthropology (3.00)
ANTH 2700 - Great Archaeological Discoveries of the Past (3.00)	←	**ANTH V03** - Introduction to Archaeology (3.00)
ART 2090 - Perspectives on Art and Cultural Diversity (3.00)	←	No Course Articulated

ART 2400 - Art and Life Perspectives (3.00)	←	No Course Articulated
BUS 2500 - Diversity, Business and the Workplace (3.00)	←	No Course Articulated
CHDV 1200 - Intimate Relationships in our Diverse Society (3.00) Same-As: SOC 1200	←	No Course Articulated
CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00)	←	**CD V05** - Teaching in a Diverse Society (3.00)
CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) Same-As: WGSS 2200	←	**HIST V58** - United States History: Focus on Chicanos since 1850 (3.00) Same-As: AES V22
COMM 2500 - Communication, Identity and Culture (3.00)	←	No Course Articulated
COUN 2020 - Integration of Adults with Disabilities in the U.S. Society (3.00)	←	No Course Articulated
COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)	←	No Course Articulated
ENGL 2600 - Literary Los Angeles (3.00)	←	No Course Articulated
GEOG 1550 - Cultural Geography (3.00)	←	**GEOG V02** - Introduction to Human Geography (3.00)
HIST 1010 - World History to 1500 CE (3.00)	←	**HIST V76** - World History to 1550 (3.00)
HIST 1020 - World History since 1500 CE (3.00)	←	No Course Articulated
HIST 1600 - History of Asia (3.00) Same-As: AAAS 1600	←	No Course Articulated
HIST 2010 - Early American History (3.00)	←	**HIST V46** - United States History to 1877 (3.00)
HIST 2020 - Recent United States History (3.00)	←	**HIST V56** - United States History since 1877 (3.00)
HNRS 2210 - Reading Los Angeles: Engaging Cultural Expressions in a Global City (3.00)	←	No Course Articulated
LAS 1500 - Introduction to Latin American Studies (3.00)	←	No Course Articulated
LAS 2550 - Diverse Latin American Populations in Southern California (3.00) Same-As: CLS 2040	←	No Course Articulated
LBS 2400 - Introduction to Environmental Humanities (3.00)	←	No Course Articulated
LBS 2500 - Social Change and Social Movements in the U.S. (3.00)	←	No Course Articulated
LBS 2666 - Science Fiction Film and Television (3.00) Same-As: TVF 2666	←	No Course Articulated
PHIL 2000 - Introduction to Comparative Religions (3.00) Same-As: RELS 2000	←	**PHIL V03A** - Survey of World Religions: East (3.00)
PHIL 2200 - Contemporary Moral and Social Issues: An Intersectional Approach (3.00)	←	**IDS V08** - Ethics in Modern Society (3.00)
HNRS 2210 - Reading Los Angeles: Engaging Cultural Expressions in a Global City (3.00)	←	No Course Articulated
PHIL 2300 - Meanings of Human Life: An Intersectional Approach (3.00)	←	No Course Articulated
PHIL 2400 - Philosophy of Film (3.00)	←	No Course Articulated
RELS 2000 - Introduction to Comparative Religions (3.00) Same-As: PHIL 2000	←	**PHIL V03A** - Survey of World Religions: East (3.00)
SOC 1001 - Individual Development in Diverse Contexts (3.00) • *Minimum grade required: C or better*	←	No Course Articulated
SOC 1200 - Intimate Relationships in Our Diverse Society (3.00) Same-As: CHDV 1200	←	No Course Articulated
SOC 2010 - Introduction to Sociology (3.00)	←	**SOC V01** - Introduction to Sociology (3.00)
TVF 1938 - History of Comic Books (3.00)	←	No Course Articulated
TVF 2500 - Media, Culture and Identity (3.00)	←	No Course Articulated
TVF 2666 - Science Fiction Film and Television (3.00) Same-As: LBS 2666	←	No Course Articulated
WGSS 1010 - Gender and Sexuality in College (3.00)	←	No Course Articulated
WGSS 2000 - Introduction to Women's, Gender, and Sexuality Studies (3.00)	←	No Course Articulated

RACE & ETHNICITY COURSES FOR CAL STATE LA GRADUATION REQUIREMENT

AAAS 1400 - Introduction to Globalization, Race and Place (3.00) Same-As: PAS 1400, LAS 1400	←	No Course Articulated
AAAS 1500 - Asian-American History (3.00) Same-As: HIST 1500	←	**AES V63** - United States History: Focus on Asian Americans (3.00) Same-As: HIST V50 --- Or --- **HIST V50** - United States History: Focus on Asian Americans (3.00) Same-As: AES V63
AAAS 2100 - Asian America: Culture, History, and Community (3.00)	←	No Course Articulated
AAAS 2200 - Asia and Asian American in Literature, Arts, and Media (3.00)	←	No Course Articulated
AAAS 2630 - Asian-American Experience (3.00)	←	No Course Articulated
CLS 1200 - Chicanas/os Latinas/os, Gender, and Class in the US Experience (3.00)	←	**AES V23** - Chicana/o/x and Latina/o/x Studies Issues (3.00) Same-As: CHST V02
CLS 1300 - The Constitution, Equity and Chicanas/os and Latinas/os (3.00)	←	No Course Articulated
CLS 1500 - Cultural Diversity, Chicanas/os, and Latinas/os (3.00)	←	**AES V20** - Introduction to Chicano Studies (3.00) Same-As: CHST V01 --- Or --- **CHST V01** - Introduction to Chicano Studies (3.00) Same-As: AES V20
CLS 1600 - Cultural Expressions in the Americas (3.00)	←	**AES V21A** - The Heritage of Mexico to the First Republic (3.00) Same-As: HIST V48 **AES V21B** - The Heritage of Mexico since Liberation (3.00) Same-As: HIST V57
CLS 2010 - Modern Mexican Literature in Translation (3.00)	←	No Course Articulated
CLS 2050 - Chicanas/os and Latinas/os in Film and Popular Culture (3.00)	←	No Course Articulated
CLS 2060 - Latina/o Images in Media, Social Media, and Digital Communication Systems (3.00)	←	No Course Articulated
CLS 2100 - Chicana/o and Latino/a Political and Social Movements (3.00)	←	**CHST V24** - Sociology of the Chicano Community (3.00) Same-As: AES V24, SOC V24
CLS 2300 - Family Structure in the Americas (3.00)	←	No Course Articulated
ENGL 2665 - Race and Ethnicity in Science Fiction (3.00) Same-As: LBS 2665	←	No Course Articulated
HIST 1500 - Asian-American History (3.00) Same-As: AAAS 1500	←	**AES V63** - United States History: Focus on Asian Americans (3.00) Same-As: HIST V50 --- Or --- **HIST V50** - United States History: Focus on Asian Americans (3.00) Same-As: AES V63
HIST 2050 - Race and Ethnicity in United States History (3.00)	←	No Course Articulated
LAS 1020 - The African Diaspora in the Americas (3.00) Same-As: PAS 1020	←	No Course Articulated
LAS 1400 - Introduction to Globalization, Race and Place (3.00) Same-As: PAS 1400, AAAS 1400	←	No Course Articulated
LBS 2340 - Multicultural Arts, L.A. (3.00)	←	No Course Articulated
LBS 2665 - Multicultural Science Fiction (3.00) Same-As: ENGL 2665	←	No Course Articulated
PAS 1020 - The African Diaspora in the Americas (3.00) Same-As: LAS 1020	←	No Course Articulated
PAS 1100 - Racial Equality, Government and the Constitution (3.00)	←	No Course Articulated
PAS 1200 - Elementary African Language and Culture (3.00)	←	No Course Articulated
PAS 1400 - Introduction to Globalization, Race and Place (3.00) Same-As: LAS 1400, AAAS 1400	←	No Course Articulated
PAS 1500 - Black Oral Traditions and Communication (3.00)	←	No Course Articulated
PAS 1510 - African American History (3.00)	←	No Course Articulated
PAS 1800 - Critical Race Theory (3.00)	←	No Course Articulated

PAS 2010 - Third World Literature (3.00)	←	No Course Articulated
PAS 2020 - African American Religion as Civic Culture (3.00)	←	No Course Articulated
PAS 2210 - African American Music as History and Criticism (3.00)	←	No Course Articulated
PAS 2500 - African History (3.00)	←	No Course Articulated
PAS 2600 - Third World Images in Film (3.00)	←	No Course Articulated
PHIL 2230 - Diversity and Justice (3.00)	←	No Course Articulated
SOC 2630 - Asian-American Experience (3.00)	←	No Course Articulated
SPAN 2420 - Hispanic Societies through Literature (3.00)	←	No Course Articulated
WGSS 2030 - Gender and Race in the United States (3.00)	←	No Course Articulated

WGSS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00)
  Same-As: CLS 2200
	←	**HIST V58** - United States History: Focus on Chicanos since 1850 (3.00)
		  Same-As: AES V22

WGSS 2300 - Gender, Sexuality, and American Indian Communities (3.00)	←	No Course Articulated

END OF AGREEMENT