Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: San Bernardino Valley 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

<u>Cal State LA</u> <u>General Education Lower Division Courses</u>

Cal State Apply Department of Computer Science

<u>Degree with a Guarantee</u> <u>ECST Academic Advising</u>

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 <u>General Education (GE)</u> 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 <u>CS 2011</u> (4), <u>CS 3801</u> (3), <u>CS 3337</u> (3), <u>CS 3186</u> (3), <u>CS 4961</u> (3), and <u>CS 4962</u> (3)
 - 2nd Composition Met by Met by <u>ENGL 2030</u> (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 <u>CS 3801</u> (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

The articulation information in Assist.org not only shows a link to the admission requirements (aka our <u>Major Specific Criteria</u> 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)	\leftarrow	No Course Articulated		
CS 2011 - Introduction to Programming I (3.00)	←	CS 215 - Programming with Java (4.00) Or CS 190 - Programming in C++ (4.00) Or CS 110 - Fundamentals of Computer Science (3.00)		
CS 2012 - Introduction to Programming II (3.00)	←	CS 265 - Data Structures and Algorithms with C++ (3.00)		
CS 2013 - Programming with Data Structures (3.00)	\leftarrow	CS 265 - Data Structures and Algorithms with C++ (3.00)		
CS 2148 - Discrete Structures (3.00)	\leftarrow	No Course Articulated		
CS 2445 - Introduction to Computer Systems (3.00)	\leftarrow	CS 170 - Assembly Language (4.00)		
CS 2470 - Fundamentals of Network Systems and Cybersecurity (3.00)	\leftarrow	No Course Articulated		
ENGL 2030 - Introduction to Technical Writing (3.00)	\leftarrow	No Course Articulated		
MATH 2110 - Calculus I (4.00)	\leftarrow	MATH 250 - Single Variable Calculus I (4.00)		
MATH 2120 - Calculus II (4.00)	\leftarrow	MATH 251 - Single Variable Calculus II (4.00)		

MATH 265 - Linear Algebra (4.00)

PHYSIC 202 - Physics I (4.00)

MATH 2550 - Introduction to Linear Algebra (3.00)

PHYS 2100 - General Physics I: Mechanics (5.00)

DIVERSITY COURSES FOR CAL S	TATE	LA GRADUATION REQUIREMENT		
REFER TO TOP OF AGREEMENT				
AAAS 1600 - History of Asia (3.00) Same-As: HIST 1600	\leftarrow	No Course Articulated		
AAAS 1700 - Understanding Contemporary Asia (3.00)	\leftarrow	No Course Articulated		
AAAS 2000 - Pacific Asian Culture, People, & Society (3.00)	\leftarrow	No Course Articulated		
ANTH 1001 - Where in the World of Education at CSULA are You? (3.00)	\leftarrow	No Course Articulated		
ANTH 1500 - Introduction to Cultural Anthropology (3.00)	\leftarrow	ANTHRO 102 - Cultural Anthropology (3.00)		
ANTH 2700 - Great Archaeological Discoveries of the Past (3.00)	\leftarrow	No Course Articulated		
ART 2090 - Perspectives on Art and Cultural Diversity (3.00)	\leftarrow	ART 103 - Art Appreciation (3.00)		
ART 2400 - Art and Life Perspectives (3.00)	\leftarrow	No Course Articulated		
BUS 2500 - Diversity, Business and the Workplace (3.00)	\leftarrow	No Course Articulated		
CHDV 1200 - Intimate Relationships in our Diverse Society (3.00) Same-As: SOC 1200	\leftarrow	SOC 130 - Family Sociology (3.00)		
CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00)	\leftarrow	CD 138 - Teaching in a Diverse Society (3.00)		
CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) Same-As: WGSS 2200	←	No Course Articulated		
COMM 2500 - Communication, Identity and Culture (3.00)	\leftarrow	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		

←	No Course Articulated
←	GEOG 102 - Cultural Geography (3.00)
\leftarrow	HIST 170 - World History to 1500 (3.00)
\leftarrow	No Course Articulated
←	No Course Articulated
\leftarrow	HIST 100 - United States History to 1877 (3.00)
	Or HIST 100H - United States History to 1877 - Honors (3.00)
←	HIST 101 - United States History: 1865 to Present (3.00)
←	No Course Articulated
\leftarrow	No Course Articulated
←	No Course Articulated
\leftarrow	No Course Articulated
\leftarrow	No Course Articulated
←	No Course Articulated
←	RELIG 100 - Introduction to Religious Studies (3.00) Or RELIG 100H - Introduction to Religious Studies - Honors (3.00) Or
	RELIG 101 - Introduction to World Religions (3.00)
←	No Course Articulated
←	No Course Articulated
\leftarrow	No Course Articulated
\leftarrow	No Course Articulated
←	RELIG 100 - Introduction to Religious Studies (3.00) Or RELIG 100H - Introduction to Religious Studies - Honors (3.00) Or RELIG 101 - Introduction to World Religions (3.00)
\leftarrow	PSYCH 102 - Personal and Social Adjustment (3.00)
←	SOC 130 - Family Sociology (3.00)
←	SOC 100 - Introduction to Sociology (3.00) Or SOC 100H - Introduction to Sociology - Honors (3.00)
←	No Course Articulated
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RACE & ETHNICITY COURSES FOR CAL STATE LA GRADUATION REQUIREMENT

REFER TO TOP OF AGREEMENT

AAAS 1400 - Introduction to Globalization, Race and Place (3.00) ← No Course Articulated

Same-As: PAS 1400, LAS 1400

AAAS 1500 - Asian-American History (3.00) Same-As: HIST 1500	←	No Course Articulated
AAAS 2100 - Asian America: Culture, History, and Community (3.00)	\leftarrow	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)	\leftarrow	No Course Articulated
CLS 1200 - Chicanas/os Latinas/os, Gender, and Class in the US Experience (3.00)	←	No Course Articulated
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)	\leftarrow	No Course Articulated
CLS 1600 - Cultural Expressions in the Americas (3.00)	\leftarrow	No Course Articulated
CLS 2010 - Modern Mexican Literature in Translation (3.00)	\leftarrow	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)	←	No Course Articulated
CLS 2300 - Family Structure in the Americas (3.00)	\leftarrow	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	←	No Course Articulated
HIST 2050 - Race and Ethnicity in United States History (3.00)	←	HIST 137 - Experiences of Racial and Ethnic Groups in U.S. History (3.00) Same-As: ETHS 137
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)	\leftarrow	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)	\leftarrow	No Course Articulated
PAS 1200 - Elementary African Language and Culture (3.00)	\leftarrow	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)	\leftarrow	No Course Articulated
PAS 1510 - African American History (3.00)	\leftarrow	HIST 138 - The African American Experience in U.S History to 1877 (3.00) Same-As: ETHS 138
PAS 1800 - Critical Race Theory (3.00)	←	No Course Articulated
PAS 2010 - Third World Literature (3.00)	\leftarrow	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)	\leftarrow	No Course Articulated
PAS 2500 - African History (3.00)	\leftarrow	No Course Articulated
PAS 2600 - Third World Images in Film (3.00)	\leftarrow	No Course Articulated
PHIL 2230 - Diversity and Justice (3.00)	\leftarrow	No Course Articulated
SOC 2630 - Asian-American Experience (3.00)	\leftarrow	No Course Articulated
SPAN 2420 - Hispanic Societies through Literature (3.00)	\leftarrow	No Course Articulated
WGSS 2030 - Gender and Race in the United States (3.00)	\leftarrow	No Course Articulated

WGSS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) Same-As: CLS 2200	←	No Course Articulated
WGSS 2300 - Gender, Sexuality, and American Indian Communities (3.00)	←	No Course Articulated

END OF AGREEMENT