Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

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

From: Merritt 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 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 <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 grad	de required: C or better
CS 1222 - Introduction to Relational Databases (3.00)	← No Course Articulated
CS 2011 - Introduction to Programming I (3.00)	CIS 6 - Introduction to Computer Programming (5.00) Or CIS 7 - Control Structures and Objects (4.00)
CS 2012 - Introduction to Programming II (3.00)	CIS 33 - Software Architectures and Algorithms (4.00)
CS 2013 - Programming with Data Structures (3.00)	CIS 33 - Software Architectures and Algorithms (4.00)
CS 2148 - Discrete Structures (3.00)	CIS 11 - Discrete Structures and Logic (4.00)
CS 2445 - Introduction to Computer Systems (3.00)	CIS 78 - Digital Architectures for Computation (4.00)
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 3A - Calculus I (5.00)
MATH 2120 - Calculus II (4.00)	← No Course Articulated
MATH 2550 - Introduction to Linear Algebra (3.00)	← No Course Articulated
PHYS 2100 - General Physics I: Mechanics (5.00)	← PHYS 4A - General Physics with Calculus (5.00)

DIVERSITY COURSES FOR CAL STATE LA GRADUATION REQUIREMENT

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) ← No Course Articulated ANTH 2700 - Great Archaeological Discoveries of the Past (3.00) ← No Course Articulated ART 2400 - Perspectives on Art and Cultural Diversity (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) ← No Course Articulated CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00) ← CHDEV 80 - Teaching in a Diverse Society (3.00) CLS 200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) ← No Course Articulated COMM 2500 - Communication, Identity and Culture (3.00) ← No Course Articulated COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) ← No Course A	**REFER TO TOP OF AGREEMENT**				
AAAS 2000 - Pacific Asian Culture, People, & Society (3.00)←No Course ArticulatedANTH 1001 - Where in the World of Education at CSULA are You? (3.00)←No Course ArticulatedANTH 1500 - Introduction to Cultural Anthropology (3.00)←No Course ArticulatedANTH 2700 - Great Archaeological Discoveries of the Past (3.00)←ANTHR 2 - Introduction to Archaeology and Prehistory (3.00)ART 2090 - Perspectives on Art and Cultural Diversity (3.00)←No Course ArticulatedART 2400 - Art and Life Perspectives (3.00)←No Course ArticulatedBUS 2500 - Diversity, Business and the Workplace (3.00)←No Course ArticulatedCHDV 1200 - Intimate Relationships in our Diverse Society (3.00)←No Course ArticulatedSame-As: SOC 1200CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00)←CHDEV 80 - Teaching in a Diverse Society (3.00)CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00)←No Course ArticulatedCOMM 2500 - Communication, Identity and Culture (3.00)←No Course ArticulatedCOUN 2020 - Integration of Adults with Disabilities in the U.S. Society (3.00)←No Course ArticulatedCOUN 2020 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)No Course Articulated	· · · · · · · · · · · · · · · · · · ·	←	No Course Articulated		
ANTH 1001 - Where in the World of Education at CSULA are You? (3.00) ANTH 1500 - Introduction to Cultural Anthropology (3.00) ANTH 2700 - Great Archaeological Discoveries of the Past (3.00) ART 2090 - Perspectives on Art and Cultural Diversity (3.00) ART 2400 - Art and Life Perspectives (3.00) CHDV 1200 - Intimate Relationships in our Diverse Society (3.00) CHDV 1200 - Intimate Relationships in our Diverse Society (3.00) CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00) CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) COMM 2500 - Communication, Identity and Culture (3.00) COMM 2500 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)	AAAS 1700 - Understanding Contemporary Asia (3.00)	\leftarrow	No Course Articulated		
ANTH 1500 - Introduction to Cultural Anthropology (3.00)	AAAS 2000 - Pacific Asian Culture, People, & Society (3.00)	\leftarrow	No Course Articulated		
ANTH 2700 - Great Archaeological Discoveries of the Past (3.00) ← ANTHR 2 - Introduction to Archaeology and Prehistory (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) ← No Course Articulated CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00) ← CHDEV 80 - Teaching in a Diverse Society (3.00) CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) ← No Course Articulated 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) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)		←	No Course Articulated		
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) ← No Course Articulated CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00) CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) ← No Course Articulated COUN 2500 - Communication, Identity and Culture (3.00) ← No Course Articulated COUN 2020 - Integration of Adults with Disabilities in the U.S. Society (3.00) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)	ANTH 1500 - Introduction to Cultural Anthropology (3.00)	\leftarrow	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 CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00) CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) ← No Course Articulated 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) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2020 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)	ANTH 2700 - Great Archaeological Discoveries of the Past (3.00)	\leftarrow	ANTHR 2 - Introduction to Archaeology and Prehistory (3.00)		
BUS 2500 - Diversity, Business and the Workplace (3.00) ← No Course Articulated CHDV 1200 - Intimate Relationships in our Diverse Society (3.00)	ART 2090 - Perspectives on Art and Cultural Diversity (3.00)	\leftarrow	No Course Articulated		
CHDV 1200 - Intimate Relationships in our Diverse Society (3.00) Same-As: SOC 1200 CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00) CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) Same-As: WGSS 2200 COMM 2500 - Communication, Identity and Culture (3.00) COUN 2020 - Integration of Adults with Disabilities in the U.S. Society (3.00) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2020 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2020 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2020 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)	ART 2400 - Art and Life Perspectives (3.00)	\leftarrow	No Course Articulated		
CHDV 2250 - Ethnic Identity and Awareness in Children and Families (3.00) CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) COMM 2500 - Communication, Identity and Culture (3.00) COUN 2020 - Integration of Adults with Disabilities in the U.S. Society (3.00) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) COUN 2030 - Diversity and Awareness of Self and Others for Helping Professionals (3.00)	BUS 2500 - Diversity, Business and the Workplace (3.00)	\leftarrow	No Course Articulated		
(3.00) CLS 2200 - Chicanas and Latinas in Contemporary U.S. Society (3.00) Same-As: WGSS 2200 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) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) No Course Articulated No Course Articulated		←	No Course Articulated		
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(3.00) COUN 2250 - Diversity and Awareness of Self and Others for Helping Professionals (3.00) No Course Articulated	COMM 2500 - Communication, Identity and Culture (3.00)	\leftarrow	No Course Articulated		
Professionals (3.00)		←	No Course Articulated		
ENGL 2600 - Literary Los Angeles (3.00) ← No Course Articulated	,	←	No Course Articulated		
	ENGL 2600 - Literary Los Angeles (3.00)	\leftarrow	No Course Articulated		

GEOG 1550 - Cultural Geography (3.00)	←	GEOG 2 - Cultural Geography (3.00)
HIST 1010 - World History to 1500 CE (3.00)	\leftarrow	No Course Articulated
HIST 1020 - World History since 1500 CE (3.00)	\leftarrow	No Course Articulated
HIST 1600 - History of Asia (3.00) Same-As: AAAS 1600	←	No Course Articulated
HIST 2010 - Early American History (3.00)	\leftarrow	No Course Articulated
HIST 2020 - Recent United States History (3.00)	\leftarrow	No Course Articulated
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)	\leftarrow	No Course Articulated
LAS 2550 - Diverse Latin American Populations in Southern California (3.00) Same-As: CLS 2040	\leftarrow	No Course Articulated
LBS 2400 - Introduction to Environmental Humanities (3.00)	\leftarrow	No Course Articulated
LBS 2500 - Social Change and Social Movements in the U.S. (3.00)	\leftarrow	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	←	No Course Articulated
PHIL 2200 - Contemporary Moral and Social Issues: An Intersectional Approach (3.00)	←	No Course Articulated
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)	\leftarrow	No Course Articulated
RELS 2000 - Introduction to Comparative Religions (3.00) Same-As: PHIL 2000	←	No Course Articulated
 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)	\leftarrow	SOC 1 - Introduction to Sociology (3.00)
TVF 1938 - History of Comic Books (3.00)	\leftarrow	No Course Articulated
TVF 2500 - Media, Culture and Identity (3.00)	\leftarrow	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)	\leftarrow	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

REFER TO T	OP OF	AGREEMENT
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	\leftarrow	No Course Articulated
AAAS 2100 - Asian America: Culture, History, and Community (3.00)	\leftarrow	ASAME 1 - Art and Culture of Asia (3.00)
AAAS 2200 - Asia and Asian American in Literature, Arts, and Media (3.00)	←	ASAME 30 - Asians and Asian-Americans through Films (3.00)
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)	\leftarrow	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)	← No Course Articulated
CLS 1600 - Cultural Expressions in the Americas (3.00)	← No Course Articulated
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)	← No Course Articulated
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	← No Course Articulated
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	← No Course Articulated
WGSS 2300 - Gender, Sexuality, and American Indian Communities (3.00)	← No Course Articulated

END OF AGREEMENT