

Articulation Agreement by Major
Effective during the 12-13 Academic Year

To: **CSU Northridge**

|From: **Glendale Community College**

Semester|

Semester

====Computer Science====

COMPUTER SCIENCE: B.S., College of Engineering and Computer Science

(Upper division transfer students applying as Computer Science majors do not have to complete Critical Thinking prior to admission.)

To qualify for admission into the Computer Science major program, students must first complete a pre-major program consisting of **seven** lower division courses covering math, computer science and the university General Education requirements for Written Composition and Oral Communication. Transfer students will be admitted into the Computer Science pre-major. Upon successful completion of pre-major requirements they may apply for admission into the Computer Science major by completing a pre-major to major evaluation form available from the Computer Science Department. Admission into the Computer Science major program is required prior to enrolling in Upper-Division Computer Science courses.

Note: No grade lower than a "C" will be accepted on transfer to satisfy Computer Science requirements. This agreement displays the lower-division courses required in the major: CSU Northridge courses on the left and approved (articulated) transfer courses on the right. General education and upper-division courses are also necessary for completion of this degree.

Computer Science students may benefit by following CSU Northridge GE Plan R instead of CSU-GE Breadth or IGETC. On the ASSIST agreement For General Education/Breadth, select General Education: Engineering and Computer Science.

- Advanced Placement (AP) Exam information for the major in Computer Science:
- Score of 4 or 5 on AP Computer Science A satisfies COMP 110/110L
 - Score of 3 on AP Computer Science AB satisfies COMP 110/110L
 - Score of 4 or 5 on AP Computer Science AB satisfies COMP 110/110L & 182/182L
 - Score of 4, or 5 on AP Math: Calculus AB satisfies MATH 150A
 - Score of 3, 4, or 5 on AP Math: Calculus BC satisfies MATH 150A
 - Score of 4, or 5 on AP Math: Calculus AB + BC satisfies MATH 150A and 150B
 - Score of 3, 4, or 5 on AP Biology satisfies BIOL 106 & 107 (NOT Labs)
 - Score of 4 or 5 on AP Chemistry satisfies CHEM 101/101L
 - Score of 3, 4, or 5 on AP Physics C:Mechanics satisfies PHYS 220A/220AL
 - Score of 3, 4, or 5 on AP Physics C:Electricity & Mag satisfies PHYS 220B/220BL
- Consult CSU Northridge catalog for complete AP Exam information.

THE COMPUTER SCIENCE PRE-MAJOR REQUIREMENTS ARE AS FOLLOWS:

Questions regarding this agreement may be directed to the CSU Northridge Articulation Officer at 818-677-7068 or by e-mail at: patty.faiman@csun.edu

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<http://www.csun.edu/anr/applytrf.html>
Computer Science (continued)

CSU General Education: Written Communication			ENGL 101	Freshman English	(3)
			OR		
			ENGL 101H	Honors Freshman English	(3)
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CSU General Education: Oral Communication			SPCH 101	Public Speaking	(3)
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COMP 110	&	Introduction to Algorithms and Programming	(3)	CS/IS 135	Programming in C/C++ (3)
				OR	
COMP 110L		Introduction to Algorithms and Programming Laboratory	(1)	CS/IS 112	Introduction to Programming Using Java (3)
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COMP 122	&	Computer Architecture and Assembly Language	(1)	CS/IS 165	Computer Architecture (4) and Assembly Language
COMP 122L		Computer Architecture and Assembly Language Lab	(1)		
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COMP 182	&	Data Structures and Program Design	(3)	CS/IS 211	Data Structures (5)
COMP 182L		Data Structures and Program Design Lab	(1)		
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MATH 150A		Calculus I	(5)	MATH 103	Calculus and Analytic Geometry (5)
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PHIL 230		Introduction to Formal Logic	(3)	PHILO 123	Introduction to Symbolic Logic (3)

ADDITIONAL LOWER DIVISION REQUIREMENTS FOR THIS MAJOR ARE AS FOLLOWS:

COMP 222		Computer Organization	(3)	CS/IS 166	Advanced Computer Architecture and Assembly Language (3)
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Computer Science (continued)

COMP 256	&	Discrete Structures for Computer Science	(3)		No Course Articulated	
COMP 256L		Discrete Structures for Computer Science Lab	(1)			
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COMP 282		Advanced Data Structures	(3)		CS/IS 212 Advanced Data Structures	(3)
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MATH 150B		Calculus II	(5)		MATH 104 Calculus and Analytic Geometry	(5)
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MATH 262		Introduction to Linear Algebra	(3)		MATH 107 Linear Algebra	(4)
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Select one of the following science sequences (8-10 units):

BIOL 106	&	Biological Principles I	(3)		BIOL 102 General Biology w/Lab	(5)
BIOL 106L		Biology Laboratory I	(1)			
AND						
BIOL 107	&	Biological Principles II	(3)		BIOL 101 General Biology w/Lab	(4)
BIOL 107L		Biology Laboratory II	(1)			
OR						
CHEM 101	&	General Chemistry I	(4)		CHEM 101 General Chemistry	(5)
CHEM 101L		General Chemistry I Laboratory	(1)		w/Lab	
AND						
CHEM 102	&	General Chemistry II	(4)		CHEM 102 General Chemistry	(5)
CHEM 102L		General Chemistry II Laboratory	(1)		w/Lab	
OR						
PHYS 220A	&	Mechanics	(3)		PHY 101 Engineering Physics	(5)
PHYS 220AL		Mechanics Laboratory	(1)		w/Lab	
AND						
PHYS 220B	&	Electricity and Magnetism	(3)		PHY 102 Engineering Physics	(4)
PHYS 220BL		Electricity and Magnetism Laboratory	(1)		w/Lab	

From the following list, select an additional science course with corresponding lab outside of the sequence selected above:

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Computer Science (continued)

BIOL 106	&	Biological Principles I	(3)	BIOL 102	General Biology w/Lab	(5)
BIOL 106L		Biology Laboratory I	(1)			
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CHEM 101	&	General Chemistry I	(4)	CHEM 101	General Chemistry	(5)
CHEM 101L		General Chemistry I Laboratory	(1)		w/Lab	
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GEOG 101		The Physical Environment	(3)	GEOG 101	Physical Geography	(3)
		AND			AND	
GEOG 102		Physical Geography Laboratory	(1)	GEOG 111	Physical Geography Laboratory	(1)
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GEOG 103		Weather	(3)	GEOG 107	Weather, Climate and Climate Change	(3)
		AND			AND	
GEOG 105		Weather Lab	(1)		No Comparable Lab	
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GEOLOG 101	&	Geology of Planet Earth	(3)	GEOLOG 101	& Physical Geology	(3)
GEOLOG 102		Geology of Planet Earth Laboratory	(1)	GEOLOG 111	Physical Geology Laboratory	(1)
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GEOLOG 110	&	Earth and Life Through Time	(3)	GEOLOG 105	Historical Earth Science w/Lab	(4)
GEOLOG 112		Earth and Life Through Time Lab	(1)			
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PHYS 220A	&	Mechanics	(3)	PHY 101	Engineering Physics	(5)
PHYS 220AL		Mechanics Laboratory	(1)		w/Lab	

END OF MAJOR

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