

B.S. Computer Science Systems Option

Four-Year Degree Plan

within the CSU Chico Department of Computer Science
2005 - 2007 University Catalog

Total Units
128

CIS Major	Units	GE & Electives	Units
Major Lower Division (LD)	25	General Education	54
Major Upper Division (UD)	31	Electives	14
Systems Option (SO)	19	Double Counted	-15
Major Total Units	75	Other Total Units	53

First Semester				Units	Notes ¹	Second Semester				Units	Notes ¹
CSCI 111	CSCI 015A	Programming and Algorithms I	3	LD	CSCI 112	CSCI 015B	Programming and Algorithms II	3	LD		
MATH 120	MATH 007A	Analytic Geometry and Calculus	4	LD & GE A4	MATH 121	MATH 007B	Analytic Geometry and Calculus	4	LD		
ENGL 130	ENGL 001	Academic Writing	3	GE A2	GE D		Behavioral and Social Sciences	3	GE D1/D2/D3		
GE A		Oral Communications or Critical Thinking	3	GE A1 or A3	GE A		Oral Communications or Critical Thinking	3	GE A1 or A3		
GE E		Lifelong Learning	3	GE E	GE C		Arts and Humanities	3	GE C1/C2/C3		
Semester Total			16		Semester Total			16			
Third Semester				Units	Notes ¹	Fourth Semester				Units	Notes ¹
CSCI 221	CSCI 051A	Assembly Language Programming	3	LD	CSCI 305	CSCI 180	Proj Requiremts/Design/Test	3	UD		
PHYS 204A	PHYS 004A	Mechanics	4	LD & GE B1	PHYS 204B	PHYS 004B	Electricity and Magnetism	4	LD		
GE C		Arts and Humanities	3	GE C1/C2/C3	GE B2		Life Forms	3	GE B2		
POLS 155	POLS 055	American Government	3	GE2 D1/D2/D3	HIST 130	HIST 050	United States History	3	GE2 C1/C2/C3		
Elective		Elective	3	GE ²	Elective		Elective	3	GE ²		
Semester Total			16		Semester Total			16			
Fifth Semester				Units	Notes ¹	Sixth Semester				Units	Notes ¹
CSCI 311	CSCI 151	Algorithms and Data Structures	3	UD	CSCI 520	CSCI 280	Digital Logic Design Theory	3	SO		
CSCI 315	CSCI 150	Programming Languages	3	UD	CSCI 330	CSCI 112	Software Engineering	3	UD		
CSCI 320	CSCI 171	Computer Architecture	3	UD	CSCI 340	CSCI 152	Operating Systems Programming	3	UD		
MATH 317	MATH 120	Discrete Math Structures	3	UD	MATH 314	MATH 104	Prob & Stat for Science & Tech	4	SO		
Theme 1		Upper Division Theme (Natural Science)	3	GE ³ UD Theme	Theme 2		Upper Division Theme	3	GE UD Theme		
Elective		Elective	2		(Apply for graduation 1 year in advance)			Semester Total		16	
Semester Total			17								
Seventh Semester				Units	Notes ¹	Eighth Semester				Units	Notes ¹
CSCI 301	CSCI 110	Computer's Impact on Society	3	UD	CSCI 515	CSCI 250	Compiler Design	3	SO		
CSCI 540	CSCI 272	Multi-User Operating Systems	3	SO	CSCI Core Se		CSCI 470/547/566/567/580/583 (273/278)	3	UD		
CSCI 550	CSCI 256	Theory of Computing	3	UD	CSCI 542	CSCI 270	Systems Design	3	SO		
Theme 3		Upper Division Theme	3	GE UD Theme	CSCI 490	CSCI 190	Directed Programming Exp	1	UD		
Elective		Elective	3		GE D		Behavioral and Social Sciences	3	GE D1/D2/D3		
Semester Total			15		Elective		Elective	3			
					Semester Total			16			

¹For General Education (GE) refer to GE planning sheet; consider taking a Course Link in your first semester; consider meeting Ethnic and Non-Western requirements with GE.

²POLS 155 and HIST 130 - special GE modifications for this degree.

³One upper-division GE Natural Science course approved by CSCI Advisor.

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Computer Science Core

Course	Description	Units
Lower Division Core (7 courses)		
CSCI 111	CSCI 015A Programming and Algorithms I	3
CSCI 112	CSCI 015B Programming and Algorithms II	3
CSCI 221	CSCI 051A Assembly Language Programming	3
MATH 120	MATH 007A Analytic Geometry and Calculus	4
MATH 121	MATH 007B Analytic Geometry and Calculus	4
PHYS 204A	PHYS 004A Mechanics	4
PHYS 204B	PHYS 004B Electricity and Magnetism	4
Total Lower Division Core		25
Upper Division Core (10 courses)		
CSCI 301	CSCI 110 Computer's Impact on Society	3
CSCI 305	CSCI 180 Proj Requiremts/Design/Test	3
CSCI 311	CSCI 151 Algorithms and Data Structures	3
CSCI 315	CSCI 150 Programming Languages	3
CSCI 320	CSCI 171 Computer Architecture	3
CSCI 330	CSCI 112 Software Engineering	3
CSCI 340	CSCI 152 Operating Systems Programming	3
CSCI 490	CSCI 190 Directed Programming Exp	1
CSCI 550	CSCI 256 Theory of Computing	3
MATH 317	MATH 120 Discrete Math Structures	3
1 course selected from:		
CSCI 470	CSCI 273 Database Management	3
CSCI 547	CSCI 278 Computer Networks	3
CSCI 566	CSCI 231 Computer Graphics Programming	3
CSCI 567	CSCI 233 Graphical User Interface Impl	3
CSCI 580	CSCI 223 Artificial Intelligence	3
CSCI 583	CSCI 222 Expert Systems & Applications	3
Total Upper Division Core		31
Total Computer Science Core		56

Systems Option

Course	Description	Units
Natural Science (1 Course)		
One upper-division General Education Natural Sciences Thematic course approved in advance by your CSCI adviser. See General Education requirements.		3
Required Courses (2 Courses)		
CSCI 515	CSCI 250 Compiler Design	3
MATH 314	MATH 104 Prob & Stat for Science & Tech	4
General Option Selections (3 Courses)		
CSCI 520	CSCI 280 Digital Logic Design Theory	3
CSCI 540	CSCI 272 Multi-User Operating Systems	3
CSCI 542	CSCI 270 Systems Design	3
Total Systems Option Units		19

Unit Summary

Computer Science Core Requirements	56
Systems Option	19
Lower Division General Education	39
Upper Division General Education	9
American Institutions	6
Double Counted	-15
Electives	14
Total Degree	128