CHICAGO STATE UNIVERSITY

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The Department of Computing, Information and Mathematical Sciences, and Technology (CIMST), offers a Bachelor of Science degree in Computer Science and a minor sequence in computer science for students majoring in other fields. Required courses include courses in programming, database, software engineering, and communications and networks. Students can take a limited number of graduate courses in artificial Intelligence (AI), databases, network security, data science and other areas to enhance their specialty.

Students may choose to concentrate in computer engineering. Computer Science majors are encouraged to earn a minor in mathematics, Information Technology (ITC), or Security and Intelligence Studies (SIS). In addition, majors should seriously consider earning various industrial certificates and doing internships. The Department, supported by its Amazon, Cisco, and CompTIA academies, offers IT courses which will prepare students for various industrial certificates such as CCNA, A+, Network+, Security+, AWS Cloud Foundation Practitioner, etc.

Students obtaining this degree will be prepared for positions in private industry or government or to pursue an advanced degree in their area of specialization. Minoring and certifications will better the employment prospects.

Advisor Contact Information

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HWH 239

CHICAGO STATE UNIVERSITY

Articulation Crosswalk for BS in Computer Science

Chicago City Colleges, Associate in Science			Chicago State University BS in Computer Science		
Course #	**Title**	**Credit Hours**	**Course #**	**Title**	**Credit Hours**
ENGLISH 101	Composition I	3	ENG 1270	Composition I	3
ENGLISH 102	Composition II	3	ENG 1280	Composition II	3
SPEECH 101	Fundamentals of Speech Communication	3	CMAT 2030	Basic Speech Communications	3
Life Sciences*	IAI Life Science	3 or 4**	Life Science	IAI Life Science	3 (3 or 4)
Physical Sciences*	IAI Physical Sciences	3 or 4**	Physical Science	IAI Physical Science	3 (3 or 4)
Fine Arts	IAI Fine Arts***	3	Fine Arts	IAI Fine Arts	3
Humanities	IAI Humanities***	3	Humanities	IAI Humanities	3
Social/Behavioral Sciences	IAI Social/Behavioral Sciences***	3	Social/Behavioral Sciences	IAI Social/Behavioral Sciences	3
Social/Behavioral Sciences	IAI Social/Behavioral Sciences***	3	Social/Behavioral Sciences	IAI Social/Behavioral Sciences	3
Recommended Mathematics General Education Courses:					
MATH 125	Introductory Statistics	4**	MATH 1600	Basic Probability and Statistics	3 (4)
MATH 146	Discrete Mathematics	4**	MATH 2800	Discrete Mathematics	3 (4)
Recommended Electives:					
CIS 142	C++ Object Oriented Programming I	3	CPTR 1100	Introduction to C++ Programming	3
CIS 144	Java Object Oriented Programming I	3	CPTR 1120	Introduction to Web Script Programming—Javascript/DHT/ML/CSS/Coldfusion MX	3
CIS 244	Java Object Oriented Programming II	3	CPTR 2130	Advanced Script Programing—CGI/PERL/PHP/ASP.NET	3

	Foreign Language	3		Foreign Language CSU CAS requirement	3
Elective Courses:					
	Elective	3		Elective	3
	Elective	3		Elective	3
	Elective	3		Elective	3
	Elective	3		Elective	3
Total Credit Hours Taken at CCC		**60**	**Total Credit Hours Transferred to CSU**		**60**

*One science course must include a lab.

**Math courses and lab courses equal 4 credit hours at City Colleges and transfer as such to CSU.

***One course must fulfill the CCC Human Diversity (HD) requirement.

Courses required at CSU for BS in Computer Science	
CSU Courses	**Credit Hours**
Major Courses:	
CPTR 1900 Introduction to Computer Professions	1
CPTR 2100 Advanced C++ Programming	3
CPTR 2400 Assembly Language Programming	3
CPTR 3100 Data Structures	3
CPTR 3500 Introduction to Operating Systems	3
CPTR 3700 Communications and Computer Networks	3
CPTR 4200 Computer Algorithms	3
CPTR 4220 Programming Languages	3
CPTR 4400 Computer Organization	3
CPTR 4600 Introduction to Database Systems	3
CPTR 4800 Software Engineering	3
CPTR 4950 Senior Thesis	3
Supportive Courses:	
MATH 1410 Calculus I	4
MATH 1420 Calculus II	4
MATH 2200 Linear Algebra	3
PHIL 2350 Computer Ethics	3
Elective Courses (Approved by advisor):	
Elective	3
Elective	3
Elective	3
Elective	3
CSU Completion Credit Hours	**60**

CCC Transferred Credit Hours	**60**
CSU Completion Credit Hours	**60**
Total Degree Credit Hours	**120**