Computer Science 2014

Major: Computer Science

Degree Type: B.S.

Required Degree Credits to Graduate: 122

General Education Requirements

First Year Experience (F):

UNIV 189	Skills For Academic Success (Students transferring in 24 or more credits do not need to take UNIV 189.)	1
Communication (C):		
ENGL 110	College Composition I	3
ENGL 120	College Composition II	3
ENGL 321	Writing in the Technical Professions	3
or ENGL 324	Writing in the Sciences	
COMM 110	Fundamentals of Public Speaking	3
Quantitative Reasoning (R):	
MATH 165	Calculus I	4
Science & Technology (S	s):	10
	aken as a co-requisite with a general education science/technology course unless the course includes an embedded to a one-credit course. Select from current general education list	
Humanities & Fine Arts (A): Select from current general education list	6
Social & Behavioral Scie	nces (B): Select from current general education list	6
Wellness (W): Select from	n current general education list	2
Cultural Diversity (D): Se	lect from current general education list	
Global Perspectives (G):	Select from current general education list	
Total Credits		41

College Requirements

Bachelor of Science Degree - An additional 6 credits in Humanities and Social Sciences*

Major Requirements

A Grade of 'C' or better is required for all CSCI courses.

eneral Education Requirements		40
Science and Mathmatics College Requirements		
B.S. Computer Science Core Requ	uirements	
CSCI 160	Computer Science I	4
CSCI 161	Computer Science II	4
CSCI 213	Modern Software Development	3
CSCI 222	Discrete Mathematics	3
CSCI 313	Software Development for Games	3
CSCI 336	Theoretical Computer Science II	3
CSCI 366	Database Systems	3
CSCI 372	Comparative Programming Languages	3
CSCI 374	Computer Organization and Architechure	3
CSCI 415	Networking and Parallel Computation	3
CSCI 445	Software Projects Capstone	3
CSCI 467	Algorithm Analysis	3
CSCI 474	Operating Systems Concepts	3
CSCI 489	Social Implications of Computers *	3

^{*} Humanities and Social Sciences may be fulfilled by any course having the following prefix: ADHM, ANTH, ARCH, ART, CJ, CLAS, COMM, ECON, ENGL, FREN, GEOG, GERM, HDFS, HIST, LA, LANG, MUSC, PHIL, POLS, PSYC, RELS, SOC, SPAN, THEA, WGS, or any course from the approved list of general education courses in humanities and social sciences (general education categories A and B). These credits must come from outside the department of the student's major.

category	ves: Select 3 courses form the categories listed below. No more than 2 courses may come from an	iy sirigid
Software Engineering:		
CSCI 413	Principles of Software Engineering	
CSCI 477	Object-Oriented Systems	
CSCI 488	Human-Computer Interaction	
Large Systems:		
CSCI 426	Introduction to Artificial Intelligence	
CSCI 458	Microcomputer Graphics	
CSCI 459	Foundations of Computer Networks	
Systems Modeling:		
CSCI 418	Simulation Models	
CSCI 453	Linear Programming and Network Flows	
CSCI 454	Operations Research	
Emerging Areas:		
CSCI 345	Topics on Personal Computers	
CSCI 469	Network Security	
CSCI 473	Foundations of the Digital Enterprise	
CSCI 476	Computer Forensics	
CSCI 479	Introduction to Data Mining	
Mathematics and Statistic	es:	
MATH 166	Calculus II	
STAT 367	Probability	
STAT 368	Statistics	
Science:		
One Year Lab Science Seq	uence: Select one of the following sequences:	3
BIOL 126	Human Biology	
& 126L	and Human Biology Laboratory	
& BIOL 220 & BIOL 220L	and Human Anatomy and Physiology I	
	and Human Anatomy and Physiology I Laboratory	
CHEM 121 & 121L	General Chemistry I and General Chemistry I Laboratory	
& CHEM 122	and General Chemistry I Laboratory	
& CHEM 122L	and General Chemistry II Laboratory	
CHEM 150	Principles of Chemistry I	
& CHEM 160	and Principles of Chemistry Laboratory I	
& CHEM 151	and Principles of Chemistry II	
& CHEM 161	and Principles of Chemistry Laboratory II **	
GEOL 105	Physical Geology	
& 105L	and Physical Geology Lab	
& GEOL 106	and The Earth Through Time	
& GEOL 106L	and The Earth Through Time Lab ***	
PHYS 211	College Physics I	
& 211L	and College Physics I Laboratory	
& PHYS 212 & PHYS 212L	and College Physics II	
	and College Physics II Laboratory	
PHYS 251 & 251L	University Physics I and University Physics I Laboratory	
& 251L & PHYS 252	and University Physics I Laboratory and University Physics II	
	and University Physics II Laboratory	
& PHYS 252L		
	elect one additional science course that satisfies general education requirements	

CSCI 445 Software Projects Canstone & CSCI 489 Social Implications of Computers form the department canstone. CSCI 445 is typically taken

^{*} CSCI 445 Software Projects Capstone & CSCI 489 Social Implications of Computers form the department capstone. CSCI 445 is typically taken during the last spring semester and CSCI 489 is typically taken during the last fall semester prior to degree completion.

^{**} Fulfills Gen Ed Req.

^{***} Fulfills Gen Ed & Global Perspective Req.