

COMPUTER SCIENCE CURRICULUM SHEET | FALL 2012

FRESHMAN (31)

FALL				SPRING		
CSCE 145	Intro. Algorithmic Design I	4		CSCE 146	Intro. Algorithmic Design II	4
CSCE 190	Computing in Modern World	1		CSCE 215	UNIX/Linux Fundamentals	1
ENGL 101	Critical Reading & Composition	3		ENGL 102	Rhetoric & Composition	3
MATH 141	Calculus I	4		MATH 142	Calculus II	4
ELECTIVE	AIU Aest. & Intr. Understanding	3		Science	Laboratory Science	4
		15				16

SOPHOMORE (32)

FALL				SPRING		
CSCE 211	Digital Logic Design	3		CSCE 212	Intro to Comp. Architecture	3
CSCE 240	Intro. to Software Engineering	3		CSCE 2xx	CSCE Lower Division Elective	3
MATH 241	Vector Calculus	3		Science	Laboratory Science	4
SPCH 140	Public Communication	3		MATH 374	Discrete Structures	3
Science	Laboratory Science	4		ELECTIVE	GSS Social Science	3
		16				16

JUNIOR (31)

FALL				SPRING		
CSCE 311	Operating Systems	3		CSCE 416	Intro. to Computer Networks	3
CSCE 330	Prog. Language Structures	3		STAT 509	Statistics for Engineers	3
CSCE 350	Data Structures & Algorithms	3		ELECTIVE	GHS Historical Thinking	3
CSCE 390	Prof. Issues in CSCE	1		ELECTIVE	Liberal Arts Elective	3
ENGL 462/3	Technical or Bus Writing	3		Application	Area Elective	3
Application	Area Elective	3				15
		16				

SENIOR (31)

FALL				SPRING		
CSCE 490	Capstone Software Engr Proj I	3		CSCE 492	Capstone Software Engr Proj II	3
CSCE 355	Fundamentals of Computation	3		CSCE xxx	CSCE Elective	3
CSCE xxx	CSCE Elective	3		CSCE xxx	CSCE Elective	3
MATH 526	Numerical Linear Algebra	4		Application	Area Elective	3
ELECTIVE	Liberal Arts Elective	3		ELECTIVE	Liberal Arts Elective	3
		16				15

Carolina Core (34 hours)

AIU: Aesthetic & Interpretive Understanding any approved Carolina Core course for AIU
ARP: Analytical Reasoning & Prob. Solving MATH 141, MATH 142
CMW: Communication - Writing ENGL 101, ENGL 102
SCI: Scientific Literacy two approved Carolina Core courses with labs
GFL: Global Citizenship - Foreign Language Score of "2" or better on FLPT, any approved course(s) Carolina Core for GFL

GHS: Global Citizenship Historical Thinking any approved Carolina Core course for GHS
GSS: Global Citizenship Social Science any approved Carolina Core course for GSS
Overlay Courses
CMS: Communication - Spoken Component any approved Carolina Core course for CMS
INF: Information Literacy any approved Carolina Core course for INF
VSR: Values, Ethics, Social Responsibility any approved Carolina Core course for VSR

Aesthetic and Interpretive Understanding (AIU)

approved course from Carolina Core list

Effective, Engaged, and Persuasive Communications (CMW)

Writing

USC ENGL 101, 102 or approved courses from Carolina Core list

Global Citizenship and Multicultural Understanding

Historical Thinking (GHS)

approved course from Carolina Core list

Social Science (GSS)

approved course from Carolina Core list

Foreign Language (GFL)

score of "2" or higher or approved course(s) from Carolina Core list

Analytical Reasoning and Problem Solving (ARP)

USC MATH 141, 142 or approved courses from Carolina Core list

Overlay Courses

Spoken Component (CMS)

USC SPCH 140 or approved Carolina Core course

Information Literacy (INF)

USC ENGL 102 or approved Carolina Core course

Values Ethics, Social Responsibility (VSR)

USC CSCE 390 or approved Carolina Core course

Natural Science Electives (12 hours)

Must include either CHEM 111 and CHEM 112 or PHYS 21 & L and PHYS 212 & L.

An additional 4 hours must be selected from the following list: BIOL 101 & L, CHEM 111, PHYS 211 & L, GEOL 101, 201, 202, or MSCI 101, 102.

Application Area (9 hours)

See the CSCE department website for application area / cluster information.

A minor (18 hours) can replace the application area electives.

CSCE Major Electives (9 hours)

CSCE 317 or any CSCE course 510 or higher

CSCE Lower Division Elective (3 hours)

Elective options currently include but are not limited to: CSCE 201, 204, 205, 207, 242

Note: all CSCE courses must be completed with a C or better