

COMPUTER SCIENCE CURRICULUM SHEET | FALL 2014

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		Science	Laboratory Science	4
MATH 374	Discrete Structures	3		MATH 241	Vector Calculus	3
SPCH 140	Public Communication	3		ELECTIVE	GSS Social Science	3
Science	Laboratory Science	4		ELECTIVE	GHS Historical Thinking	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	Liberal Arts Elective	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 (28)

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		ELECTIVE	Liberal Arts Elective	3
Application	Area Elective	3				12
		16				

ADDITIONAL REQUIREMENTS (0-12)

These additional University requirements may be satisfied through overlay courses, by placement testing, or by stand alone courses beyond the curriculum requirements above.

INF Information Literacy

USC ENGL 102, or other approved Carolina Core INF overlay or stand alone course.

GFL Global Citizenship and Multicultural Understanding: Foreign Language

Score of two or better on foreign language test, or equivalent study of approved Carolina Core GFL course(s).

CSCE Major Electives (9 hours)

CSCE 317 or any CSCE course 510 or higher

Application Area (9 hours)

See the CSCE department website for application area / cluster information.
A minor (18 hours) can replace the application area electives.

Curriculum Notes

C or better is required in ENGL 101, 102, MATH 141, 142, CHEM 111 or PHYS 211 & L, and all CSCE courses. CSCE 101 and 102 are not degree applicable.

SPCH 140 meets CMS: Spoken Component for Carolina Core.

MATH 174 **is not** a substitute for MATH 374.

***Scientific Literacy (12 hours)**

Must include either CHEM 111 and CHEM 112 or PHYS 211 & 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.

Carolina Core (31-36 hours)

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