

Major Map: Computer Information Systems Bachelor of Science (B.S.)

College of Engineering and Computing Department of Computer Science & Engineering

Bulletin Year: 2021-2022

This course plan is a recommended sequence for this major. Courses designated as critical (1) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program.

mester One (15-16 Credit Hours) ENGL 101 Critical Reading and Composition 3 C CC-CMW	Program Notes section for details regarding "critical cou Course Subject and Title	Credit		Program		Prerequisites	Notes
MATH 122 Cale. for Bus. Admin. & Soc. Sci. 3-4 C CC-ARP C or better in MATH 111/11 for 115 (MATH 122 only); or Math placement test score CSCE 145 Algorithmic Design 1 C C CC-ARP Prereq or Coreq: (SCE 145, 204, 205, or 206 CC-CMP CC-CORP	emester One (15-16 Credit Hours)						
MATH 122 Cale. for Bus. Admin. & Soc. Sci. 3-4 C CC-ARP C or better in MATH 111/11 for 115 (MATH 122 only); or Math placement test score CSCE 145 Algorithmic Design 1 C C CC-ARP Prereq or Coreq: (SCE 145, 204, 205, or 206 CC-CMP CC-CORP	ENGL 101 Critical Reading and Composition	3	С		CC-CMW		
112/115/16 (MATH 141 only); or Math placement test score	MATH 122 Calc. for Bus. Admin. & Soc. Sci.	3-4	С		CC-ARP	C or better in MATH 111/111I or 115	
CSCE 145 Algorithmic Design	or MATH 141 Calculus 13					(MATH 122 only); C or better in MATH	
CSCE 145 Algorithmic Design						112/115/116 (MATH 141 only); or Math	
Carolina Core SCIF 4 CC-SCI Section CC-SCI CC							
C	CSCE 145 Algorithmic Design I	4	С	*	CC-ARP	Prereg or Coreg: MATH 111 or 115	
Carolina Core SCI* 4	CSCE 190 Computing in the Modern World	1		*	PR	Prereg or Corea: CSCE 145, 204, 205, or	
nester Two (15 Credit Hours) ESCE 215 UNIXLinux Fundamentals CSCE 215 UNIXLinux Fundamentals 1							
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C2-INF	ENGL 102 Rhetoric and Composition	3	С		CC-CMW	C or better in ENGL 101	
CSCE 146 Algorithmic Design II	•				CC-INF		
MATH 122 or 141	Carolina Core SCI ⁴	4			CC-SCI		
MATH 122 or 141	CSCE 146 Algorithmic Design II		С	*		C or better in CSCE 145. Prereg or Coreg:	
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CSCE 247 Software Engineering	CSCE 210 Computer Hardware Foundations	3	С	*	PR	D or better in CSCE 145, 204, 205, 206, or	
SCC 247 Software Engineering SPCH 140 Public Communication or SPCH 140 Fublic Communication or SPCH 140 Fublic Communication or SPCH 230 Business & Prof. Speaking master Four (15 Credit Hours) CSCE 201 Introduction to Computer Security SCSCE 201 Introduction to Computer Security CSCE 240 Advanced Programming 3							
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CC-CMS C							
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Liberal Arts Elective ⁶ 3 PR See Bulletin listing.			-				
	Liberal Arts Elective ⁶	3			PR	See Bulletin listing.	

Se	Semester Eight (12 Credit Hours)						
	CSCE 492 Capstone Computing Project II	3	С	*	MR	CSCE 490	
	Computer Information Systems Major Elective ⁷	3	С	*	MR	See Bulletin listing.	
	Liberal Arts Elective ⁶	3			PR	See Bulletin listing.	
	Liberal Arts Elective ⁶	3			PR	See Bulletin listing.	
Take during any semester (0-6 Credit Hours)							
	Carolina Core GFL ⁴ or 2 Elective hours (if	0-6			CC-GFL		
	needed)				/PR		

Graduation Requirements Summary

Minimum Total Hours	Minimum Major Requirements Hours	College & Program Requirements Hours	Carolina Core Hours	Minimum Institutional GPA
120	27	57-59	34-41	2.00

- 1. Regardless of individual course grades, students must maintain a minimum 2.00 cumulative GPA.
- 2. Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the Computer Information Systems program GPA of 2.00.
- 3. Students who place into MATH 111 or 115 will be required to successfully complete it before taking MATH 122 or 141.
- 4. The <u>Carolina Core</u> provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students. Students in the College of Engineering and Computing are required to demonstrate proficiency in one foreign language equivalent to the 121 course by 1) a score of two or better on the foreign language placement test; or 2) completion of the 109 and 110 courses in FREN, GERM, LATN, or SPAN or completion of the 121 course in another foreign language. Students who do not place out of the GFL requirement may need to take additional hours to meet this requirement.
- 5. Students in the Computer Information Systems program are required to complete a minor in Business Information Management (18 hours), including any two of the following electives (6 hours): ACCT 324 Survey of Commercial Law; ECON 311 Issues in Economics; ECON 379 Government Policy Toward Business; FINA 333 Finance and Markets; IBUS 301 Introduction to International Business; MGMT 472 Entrepreneurship and Small Business; MKTG 350 Principles of Marketing; MKTG 351 Consumer Behavior; MGSC 395 Operations Management.
- 6. Liberal Arts Electives (9 hours) include: AERO 401, 402; AFAM 201-580; ANTH 100-499; ARMY 401, 402; ARTE 101, 260; ARTH 105-366; ARTS 103-261; CHIN 103-550; CLAS 220-598; CPLT 150-597; CRJU 101-494; DANC 101-381; ECON 123-499; ENGL 270-499; FAMS 180-597; FREN 109-615; GEOG 103-595; GERM 109-615; HIST 101-692; ITAL 101-615; JAPA 121-500; LASP 201-451; LATN 109-615; LING 101-600, but only one of LING 300, LING 301, and LING 600 can be used; MART 110-341; MUSC 110-140; NAVY 401, 402; PHIL 101-109, 112-598; POLI 101-499; PORT 121-615; PSYC 101-499; RELG 101-552; RUSS 121-616; SOCY 101-499; SOST 101-500; SPAN 109-615; THEA 170-565; WGST 112-555.
- 7. **Computer Information Systems Major Elective** (3 hours): ITEC 447, ITEC 560 or an approved CSCE course, 510 and higher.

Program Notes:

- Courses identified as "critical" may affect time to graduation due to prerequisite requirements for subsequent required courses.
- All undergraduate students must take a 3-credit course or its equivalent with a passing grade that covers the founding documents. This course may fulfill any requirement in the program of study. Courses that meet this requirement are listed in the academic bulletin.
- No Carolina Core, Lower Division Computing, Computer Science Major, or Computer Science Elective course may be counted toward a minor or application area. All other degree-required courses and electives may be used for a minor as appropriate.
- A student cannot repeat courses from the College of Engineering and Computing in which they earned a grade of C or better. In addition, a student cannot repeat any course from the College a second time. No more than four courses from the College of Engineering and Computing may be repeated in order to satisfy the requirements for any degree from the College, regardless of satisfactory work. For this purpose, withdrawal from a course with a grade of **W** is not regarded as enrollment in that course. A student that does not satisfactorily complete a degree-required College course within two attempts must change major or transfer out of the College of Engineering and Computing.
- The last 25% of a student's degree must be completed in residence at the University, and at least half of the hours in the student's major courses and in the student's minor courses (if applicable) must be taken at the University.
- Disclaimer: Prerequisites on courses are subject to change. Please refer to Bulletin.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the Carolina Core page on the University website

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Codes:							
CC	Carolina Core	CC-INF	Carolina Core – Information Literacy				
CC-AIU	Carolina Core-Aesthetic and Interpretive Understanding	CC-INT	Carolina Core – Integrative Course				
CC-ARP	Carolina Core-Analytical Reasoning and Problem-Solving	CC-SCI	Carolina Core – Scientific Literacy				
CC-CMS	Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component	CC-VSR	Carolina Core - Values, Ethics, and Social Responsibility				
CC-CMW	Effective, Engaged, and Persuasive Communication: Written Component	CR	College Requirement				
CC-GFL	Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language	MR	Major Requirement				
CC-GHS	Carolina Core – Historical Thinking	PR	Program Requirement				
CC-GSS	Carolina Core – Social Sciences						

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.