BSCS Program Checklist   MAY 2021

Name _____   Term Entered _____   Expected Grad _____

Requirements	Credits	Offered	Prerequisites	Semester	Grade
A. Required Computer Science Courses (50 Credits)					
CS 201 Computer Science I	4.0	FA, SP	Level III placement or MATH 120*		
CS 202 Computer Science II	4.0	FA, SP	CS 201 and MATH 207*		
CS 219 Advanced Data Structures	3.0	FA, SP	CS 202 and MATH 207		
CS 226 Computer Organization & Design	3.0	FA	CS 201 and MATH 207		
CS 319 Algorithm Analysis	3.0	SP	CS 219 and MATH 201 and MATH 207		
CS 324 Principles of Software Engineering	3.0	FA	CS 202		
CS 329 Intro to DBMS	3.0	SP	CS 202		
CS 453 Data Communications & Networking	3.0	SP	CS 226		
CS 464 Operating Systems	3.0	SP	CS 226 and CS 219		
CS 471 Programming Languages	3.0	FA	CS 226 and CS 219		
CS 474 Capstone Proseminar	3.0	FA	CS 329 and senior standing		
CS 475 Senior Project	3.0	SP	CS 324 and CS 474 and senior standing		
CSIT 302 Impact of Computers on Society (Also meets Global Studies Core Requirement)	3.0	FA, SP	Soc & Behavioral Analysis or Hist Analysis or Phil Inquiry of Core		
9.0 credits of 300-level or above CS electives. No more than 3.0 credits of which may be an internship or assistantship.					
CS					
CS					
CS					
B. Required Mathematics Courses (15 Credits)					
MATH 201 Calculus I	4.0	FA, SP	Level III placement or MATH 120		
MATH 202 Calculus II	4.0	FA, SP	MATH 201		
MATH 207 Discrete Mathematics	3.0	FA, SP	Level III placement or MATH 120		
Additional post-calculus Mathematics to reach a minimum of 15.0 credits (count includes courses above). *MATH 213 Statistical Concepts* (4.0 credits) is strongly recommended. Courses must be at least 200-level and may not be computer lab workshops offered in conjunction with calculus, linear algebra, or other courses. *MATH 398 Mathematics Tutorial* may be used. CS students may complete a mathematics minor, with an additional MATH 300-level or higher course beyond the 15.0 required credits.					
MATH					
MATH					
C. Lab Science Requirement ** (8 Credits)					
Minimum 8.0 credits of lab science. Courses should be selected from courses designated for science majors. CS majors should be sure to take appropriate courses to meet Core Curriculum requirements. **Non-lab sciences do NOT meet this requirement.**					
Lab Science	4.0				
Lab Science	4.0				
D. Hood Core Curriculum plus any additional credits to reach total of 124 credits.					

*May be taken concurrently.

** Non-lab courses, CHEM 100, and courses for the nursing program <u>do not count</u>. See list below.

Approved courses which may be used to meet the 8.0 credit Lab Science requirement:

BIOL 111	Secret Lives of Plants	BIOL 202	Physiology of Plants & Animals
BIOL 112	Biology of Food & Nutrition	BIOL 203	Intro to Cell Biology & Genetics
BIOL 113	Newsstand Biology	CHEM 101	General Chemistry I
BIOL 114	Biodiversity: Past Present & Future	CHEM 102	General Chemistry II
BIOL 117	This Course Will Bug You	PHYS 203	Introductory Physics I (Calculus-based)
BIOL 119	Biology of Marine Organisms	PHYS 204	Introductory Physics II (Calculus-based)
BIOL 201	Evolution & Ecology		