BSCS Program Checklist

October 2020

Name _____ Term Entered _____ Expected Grad _____

Requirements	Credits	Offered	Prerequisites	Semester	Grade
A. Hood Core Curriculum and Total Credits (124)					
B. Required Computer Science Courses					
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, SP	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 464 Operating Systems	3.0	SP	CS 226 and CS 219		
CS 471 Programming Languages	3.0	FA (Even)	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					
C. 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 credits to meet the 15-credit requirement. 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. *MATH 213 Statistical Concepts* (4.0 credits) is recommended for students who have not taken statistics. CS students may obtain a mathematics minor, by taking an additional MATH 300-level or higher beyond the 15.0 required credits.					
MATH					
MATH					
D. Lab Science Requirement (8 Credits Minimum)					
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				

*May be taken concurrently.

Introductory Science Courses which may be used to meet the 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		

** Non-lab courses, CHEM 100, and courses for the nursing program do not count.