Computer Science (BSCS) Degree Requirement Check-list (Requirements effective Fall 2009)

Student Name (Last, First): _____
Student ID number: _____ **UVa email ID:** _____
First semester at UVa: _____ **Expected grad. sem:** _____

Required Computing & Math Courses:

Course	Grade:	Semester (e.g F09):	Comments? (continue on back or separate sheet)
CS 1110 Intro. to Computer Sci.			
CS 2110 Software Devel. Methods			
CS 2102 Discrete Mathematics I			
CS 2150 Program & Data Repr.			
CS/ECE 2330 Digital Logic			
CS 2190 CS Seminar I			
CS 3102 Discrete Mathematics II			
CS/ECE 3330 Computer Architecture			
CS 3240 Advanced SW Devel. Tech.			
CS 4414 Operating Systems			
CS 4102 Analysis of Algorithms			
APMA 3100 Probability			
APMA 2130 / APMA 3080 / APMA 3120 (circle one)			
APMA 2130 / APMA 3080 / APMA 3120 (circle one)			

Other SEAS Required and Elective Courses:

Course:	Grade:	Semester:
APMA 1110		
APMA 2120		
CHEM 1610		
CHEM 1611		
ENGR 1620		
PHYS 1425		
PHYS 1429		
PHYS 2415		
PHYS 2419		

Course:	Grade:	Semester:	
STS 1010			
STS 2xxx/3xxx			List course: _____
STS 4010			
STS 4020			
Other Electives:			
Science Elective			List course: _____
HSS Elective #1			List course: _____
HSS Elective #2			List course: _____
HSS Elective #3			List course: _____
Unrestricted Elec			List course: _____

CS Electives (5): Course ID & Title

	Course ID & Title	Grade:	Semester:
1)			
2)			
3)			
4)			
5)			

Tech Electives (3): Course ID & Title

	Course ID & Title	Grade:	Semester:	Approved by advisor: signature here:
1)	(2000+ level)			
2)	(3000+ level)			
3)	(3000+ level)			

Gen. Edu. Electives (3): Course ID & Title

	Course ID & Title	Grade:	Semester:	Approved by advisor: signature here:
1)				
2)				
3)				

Advisors: You may choose to do the following if you make use of this form for a graduation check during the 4th year:

(1) List Minor or Additional Majors here: _____
(2) Sign and Date below when reviewed for Application for Degree. Attach copy to SEAS application form.

Computer Science (BSCS) Suggested Schedule   (Requirements effective <u>Fall 2009</u>)

First Semester:		
APMA 1110	Single Variable Calculus	4
CHEM 1610	Intro Chemistry for Engr	3
CHEM 1511	Intro Chem for Engr. Lab	1
ENGR 1620	Prob. Solving & Design	4
STS 1010	Lang. Comm. & Tech. Soc.	3
		15

Second Semester:		
APMA 2120	Multivariate Calculus	4
PHYS 1425	Physics I	3
PHYS 1429	Physics I Workshop	1
CS 1110	Intro. To Computer Sci.	3
_____	Science Elective [1]	3
_____	HSS Elective [2]	3
		17

Third Semester:		
APMA _____	APMA Elective or 310 [5]	3
PHYS 2415	General Physics II	3
PHYS 2419	Gen, Physics II Workshop	1
CS 2110	Software Develop. Methods	3
CS 2102	Discrete Math I	3
_____	HSS Elective [2]	3
		16

Fourth Semester:		
CS 2150	Prog. & Data Representatn	3
CS/ECE 2330	Digital Logic Design	3
CS 3102	Discrete Math II	3
CS 2190	CS Seminar I	1
STS _____	2xx / 3xx Elective	3
_____	Technical Elective [3]	3
		16

Fifth Semester:		
CS/ECE 3330	Computer Architecture	3
CS 4102	Algorithms	3
APMA _____	APMA Elective or 310 [5]	3
_____	Technical Elective [3]	3
_____	Unrestricted Elective [4]	3
		15

Sixth Semester:		
CS 3240	Adv. SW Develop. Tech.	3
CS _____	CS Elective	3
APMA _____	APMA Elective or 310 [5]	3
_____	HSS Elective [2]	3
_____	Gen Edu Elective [6]	3
		15

Seventh Semester:		
STS 4010	West. Tech & Culture	3
CS 4414	Operating Systems	3
CS _____	CS Elective	3
CS _____	CS Elective	3
_____	Gen Edu Elective [6]	3
		15

Eighth Semester:		
STS 4020	The Engineer in Society	3
CS _____	CS Elective	3
CS _____	CS Elective	3
_____	Gen Edu Elective [6]	3
_____	Technical Elective [3]	3
		15

124 semester hours are the minimum required for the BS in Computer Science degree.

Notes on courses listed in the table above:
1. Science elective must be chosen from the following: BIOL 2010, BIOL 2020, CHEM 1620, ECE 2066, MSE 2090, or PHYS 2620.
2. HSS Electives are chosen from the approved list available in A122 Thornton Hall or the SEAS website.
3. Technical Electives are courses whose emphasis is mathematics, science, or engineering. Technical electives must be at the 2000-level or higher, but at least two must be at the 3000-level or higher. See the department webpage for more information. Courses that do not clearly qualify should be approved by the student's advisor and recorded with a signature on the reverse side.
4. Any graded course at the University except those listed specifically prohibited in the Undergraduate Record in the "Elective Courses" section of the SEAS Academic Rules and Regulations.
5. Students must take APMA 3100, and choose any two from APMA 2130, APMA 3080, or APMA 3120. (Note that APMA 2130 is 4 credits and the others are 3 credits.)
6. General Education Electives include all those allowed for HSS Electives and other non-technical courses. See the department webpage for more information. Courses that do not clearly qualify should be approved by the student's advisor and recorded with a signature on the reverse side.