BA, Major in Computer Science 2012-13 Sample Course Sequence

The definitive source for degree requirements is the official UVM Catalogue.

Your specific sequence may be different from this one. Responsibility for completion of degree requirements rests with you, the student. Read the catalog and plan your course sequence carefully. Note prerequisites. Contact your academic advisor in the Computer Science Department if you have questions.

The *minimum* number of academic credits required is 120. To complete the degree in the minimum number of credits, the required Minor must also be fulfilled within these 120 credits.

	SEMESTER		¹MATH:
FIRST YEAR	1st	2 nd	MATH 21 and 22 (in place of MATH 19, 20) recommended for the most
CS 0xx		Z	flexibility in switching degree programs. Also, certain higher level MATH or CS courses that might be used to fill an "Advanced CS Elective" have
	3	-	prerequisites that would require MATH 21, 22. Some courses that require this
MATH 19, Calculus I ¹	3	-	sequence are: MATH 124 Linear Algebra, CS 266 Network Security and
Electives ²	9	4	Cryptography, CS 274 Graphics, and more. Some Minors (e.g., EE) require
CS 21,Computer Prog.I	_	3	MATH 21, 22. ² Electives:
MATH 20, Calculus II ¹	-	3	Includes Arts and Sciences General and Distribution Requirements, and other
Science Elective ²	-	4	elective credits.
	15 ^{2e}	14	Notes:
SOPHOMORE YEAR			a) A&S General requirements from non-European cultures and Race Relations
CS 110, Computer Prog.II	4	-	& Ethnicity. For Distribution requirements, the Math and the Natural Sciences categories are already complete within the requirements for the CS major.
CS 64, Discrete Struct.	3	_	Therefore, students need to complete the following Distribution categories:
Electives ²	9	6	Foreign Language, Fine Arts, Literature, Humanities, and Social Sciences.
CS 125, Computability	-	3	b) Science Requirement: The Natural Science category of the A&S
CS 124, Data Structures	_	3	Distribution Requirements must be filled. A two-semester laboratory science
CS 195 ^{2f} , Probability	_	3	sequence is recommended.
Co 1902, Probability	- 462a		NA 889
IIINIOD VEAD	16 ^{2e}	15 ^{2e}	c) A Minor is required in this degree program. Do not wait too long to begin the Minor courses since there may be prerequisite dependencies.
JUNIOR YEAR	•		the Millor courses since there may be prerequisite dependencies.
CS 121, Computer Org.	3	-	d) CS courses that are not required may be considered as elective choices
CS 2XX ³	3	-	toward degree credits. (CS 2 is recommended for the first-year first semester if
Electives ²	9	12	your CS background is weak or nonexistent. CS 14 Visual BASIC, CS 8 Web Design, CS 32 Puzzles, Games and algorithms, and other CS courses may
CS 2XX ³	_	3	also be considered if you have the prerequisites.)
	15	15	
			e) Depending on your course selections you may need 1 or 2 elective credits
SENIOR YEAR			to meet the minimum. However, you may need to take a 3-credit course because 1- or 2-credit courses are relatively rare. A 4-credit course (rather
CS 292, Senior Seminar	1	-	than 3) may also give you the odd credit.
Electives ²	15	8	
CS 2XX ³	-	3	f) Use CS 195 Probability Models in CS in a Spr semester since STAT 153 may not be offered.
CS 2XX ³	_	3	3CS Advanced Elective:
	16	14	One must be either 224 (Fall) or 243 (Spring). Three additional CS courses are required for at least 9 credits. Not more than 3 of these credits may be

independent study electives.