BS Major in Computer Science, 2010-11 Sample Course Sequence Starting with Math 10 Precalculus

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.

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FIRST YEAR	1 st	2 nd	*MATH 10:
CS 16 or 21, Computer Prog. I ¹⁶	3	-	These credits will count toward free electives, so the elective category has been reduced by these 3 credits.
MATH 10, Precalculus *	3	-	
English I, Written Exp.	3	-	¹ Electives:
Electives ¹	4	9	a) Students with no programming experience may want to take
CS 110, Computer Prog. II	-	4	an 0XX level course with a programming component as one of
MATH 21, Calculus I	-	4	their CS electives *prior* to CS 21 Computer Programming I. See other sample sequence beginning with CS 0XX.
	13	17	See other sample sequence beginning with CS UAA.
SOPHOMORE YEAR			b) See requirements for all elective categories.
CS 0XX or above, elective	3	-	
CS 121, Computer Org.	3	-	c) Minor: There may be prerequisite sequences, so don't wait
MATH 22, Calculus II	4	-	too long to begin.
CS 64, Discrete Structures	3	-	d) Science requirement: 13 credits including one sequence chosen from: Biology 1 (or BCOR 11), 2 (or BCOR 12), Chemistry 31, 32, Physics 31 or 51, 125 or 152.
Electives ¹	3	3	
CS 123, Prog. Lang.	-	3	
CS 124, Data Structures	-	3	Chamistry 4 or Dialogy 4 is typically shoop as the first Coises
MATH 124, Linear Alg ³	-	3	Chemistry 1 or Biology 1 is typically chosen as the first Science Elective since MATH 21 is a prerequisite for Physics 31 and 51.
MATH 173, Combin. ^{2,3}	-	3	Biology 2 may actually be taken prior to Biology I.
	16	15	
JUNIOR YEAR			Physics: The CS Department recommends Physics 31/21 and
CS 243, Comp. Theory ²	3	-	42/22 as Science Electives due to its relevance in the computing field. Physics is needed for some Minors (e.g., EE). It is not,
CS 2XX	3	-	however, an absolute requirement.
Stat 153, Prob/Statistics	3	-	·
Electives ¹	6	9	e) Odd Credits: Depending on your course selections you may need 1 or 2 elective credits to meet the minimum. However, you may need to take a 3-credit course because 1- or 2-credit
CS 2XX	-	3	
CS 2XX	-	3	courses are relatively rare. A 4-credit course (rather than 3) may
	15	15	also give you the odd credit.
SENIOR YEAR			² CS requirements include "224 or 243." This program shows the
CS 201, Operating Sys.	3	-	selection of 243. Note that MATH 173 is a prerequisite for CS
CS 292, Senior Seminar	1	-	224.
Electives ¹	12	7	³ MATH requirements include "two of 121, 124, 173, 271." This program shows the selection of 124 and 173. There are alternative selections.
CS 2XX	-	3	
CS 2XX	-	3	
	16	13	