DEGREE WORKSHEET FOR:
BS Mathematics, Computer Science Concentration
Degree Requirements – 120 credits

YEAR 1- FALL (14 credits)		YEAR 1- SPRING (16 credits)	
CS 120 Computer Programming	**3 credits**	**CS 160 Structure Programming**	**3 credits**
MATH 131 Calculus (LAX1*)	**4 credits**	**MATH 132 Calculus II (LAX1*)**	**4 credits**
MATH 102 Success in Math Sciences (suggested elective)	**1 credit**	**MATH 228 Discrete Mathematics**	**3 credits**
ENG 122 College Composition (LAW1*)	3 credits	Liberal Arts Curriculum[b] (choose one LAB1, LAB2, or LAB3 that is also a LAMS and/or LAIS*)	3 credits
Liberal Arts Curriculum[b] (choose one LAA1, LAA2, LAA3, or LAA4 that is also a LAMS and/or LAIS*)	3 credits	Liberal Arts Curriculum[b] (LAW2*)	3 credits
YEAR 2- FALL (15 credits)		YEAR 2-SPRING (15 credits)	
CS 200 Object-Oriented Anal Design & Prog	**3 credits**	**MATH 221 Elementary Linear Algebra**	**3 credits**
MATH 233 Calculus III	**4 credits**	**MATH 335 Differential Equations**	**3 credits**
MATH 350 Probability Theory	**3 credits**	Liberal Arts Curriculum[b] (LAA1, LAA2, LAA3, or LAA4)	3 credits
Liberal Arts Curriculum[b] (LAH1*)	3 credits	Liberal Arts Curriculum[b] (choose one LAS1, LASL*)	4 credits
University-wide Electives[c]	2 credits	University-wide Electives[c]	2 credits
YEAR 3- FALL (15 credits)		YEAR 3- SPRING (15 credits)	
CS 301 Algorithms and Data Struct	**3 credits**	**CS Major Elective[d]**	**3 credits**
CS Major Elective[d]	**3 credits**	**Major Elective[e]**	**3 credits**
Liberal Arts Curriculum[b] (LAB1, LAB2, or LAB3)	3 credits	Liberal Arts Curriculum[b] (LAS1*)	3 credits
University-wide Electives[c]	6 credits	University-wide Electives[c]	6 credits
YEAR 4- FALL (15 credits)		YEAR 4- SPRING (15 credits)	
MATH 495 Topics in Mathematics[a]	**3 credits**	**Major Elective[e]**	**3 credits**
CS Major Elective[d]	**3 credits**	University-wide Electives[c]	12 credits
University-wide Electives[c]	9 credits		

*See the Liberal Arts Curriculum webpage for more information

This four-year plan is a recommended schedule to complete your bachelor's degree in 4 years. Every UNC student must meet the following requirements in order to graduate with a bachelor's degree: earn a minimum of 120 semester credit hours; possess a minimum of a 2.00 cumulative grade point average; have at least 31 credit hours in courses designated as Liberal Arts Curriculum; meet all degree requirements in the student's major field of study. Each major and/or emphasis may have additional requirements necessary for graduation. **Students must consult with their major advisor to receive information on any additional graduation requirements.**

Admission Requirement – No separate admission requirement.
Minor Required – No Minor required.
Contact Information – School of Mathematical Sciences Ross Hall Room 2239, 970-351-2820
School Web Page: http://www.unco.edu/nhs/mathematical-sciences/
Notes – see page 2.

BS Mathematics, Computer Science Concentration (cont.)

Notes

1 [a] MATH 495 is only offered every odd-numbered fall and some odd-numbered springs

2 [b] Liberal Arts Curriculum courses can be taken any semester. It is strongly suggested that they be evenly distributed over the entire 4 years of study rather than concentrated in the first 2 years. NOTE: You need to complete 31 Liberal Arts Curriculum credits total. Math 131 and Math 132 are required in the program and also satisfy the 3 credit Liberal Arts Curriculum Mathematics requirement. Most students will take ENG 122 for their first composition class unless they have placed out of the introductory composition requirement. Students need to take 6 credits total of composition courses, 7 credits of natural and physical sciences credits, and 15 credits from Arts & Humanities, History, Social & Behavioral Sciences, U.S. Multicultural, and International Studies. Of these 15 credits, one must be designated as a Multicultural Studies [MS] class, and one must be designated as an International Studies [IS] class.

3 [c] You need to complete 35-38 credits of University-wide Electives.

4 [d] You need to complete 12 additional credits from the **CS** electives. Choose from: CS 302, 312, 325, 330, 350, 395, 401, 432, 440, 442, 454, or 456.

5 [e] You need to complete 6 additional credits from the major electives. Choose from: MATH 321, 322, 336, 341, 342, 351, 375, 431, 432, 437, 460, 495 (under second title); CS 302, 312, 325, 330, 350, 395, 401, 432, 440, 442, 454, 456; STAT 411 or 451.

6 Courses in **bold** are Mathematical Sciences Core courses.