



**DEGREE WORKSHEET FOR:
BS Mathematics: Liberal Arts Emphasis
2018-2019 Catalog
Degree Requirements – 120 credits**

YEAR 1- FALL (14 credits)		YEAR 1- SPRING (16 credits)	
ENG 122 College Composition (LAC Area 1a)	3 credits	MATH 132 Calculus II (LAC Area 2)	4 credits
MATH 131 Calculus (LAC Area 2)	4 credits	MATH 228 Discrete Mathematics	3 credits
CG 120 Computer Programming	3 credits	CS 102 Structured Programming	3 credits
Liberal Arts Core ^b /Electives ^c	3 credits	Liberal Arts Core ^b /Electives ^c	6 credits
MATH 102 Success in Mathematical Sciences- suggested elective ^c	1 credit		
YEAR 2- FALL (15 credits)		YEAR 2-SPRING (16 credits)	
MATH 233 Calculus III	4 credits	MATH 350 Elementary Probability Theory	4 credits
MATH 221 Elementary Linear Algebra	3 credits	Liberal Arts Core ^b /Electives ^c	12 credits
Liberal Arts Core ^b /Electives ^c	8 credits		
YEAR 3- FALL (16 credits)		YEAR 3- SPRING (13 credits)	
MATH 321 Intro. to Abstract Algebra	3 credits	MATH 322 Intro. to Abstract Algebra II	3 credits
MATH 431 Basic Analysis I ^a	4 credits	MATH 432 Basic Analysis II ^a	4 credits
Liberal Arts Core ^b /Electives ^c	9 credits	Liberal Arts Core ^b /Electives ^c	6 credits
YEAR 4- FALL (15 credits)		YEAR 4- SPRING (15 credits)	
MATH 495 Topics in Mathematics ^a	3 credits	MATH 460 Intro. to Complex Analysis ^a	3 credits
MATH 335 Differential Equations I	3 credits	Liberal Arts Core ^b /Electives ^c	12 credits
Liberal Arts Core ^b /Electives ^c	9 credits		

Admission Requirement – No separate admission requirement.

Minor Required – No Minor required.

Notes – see page 2.

Contact Information – School of Mathematical Sciences

Ross Hall Room 2239, 970-351-2820

School Web Page: <http://www.unco.edu/nhs/mathematical-sciences/>

This worksheet 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 40 credit hours in courses designated as Liberal Arts Core; 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.**

BS Mathematics – Liberal Arts Emphasis (cont.)

Notes

- 1 ^a These courses are offered only every other year, in the semesters indicated on the schedule.
- 2 ^b Liberal Arts Core 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 40 LAC credits total. Two MATH courses have been pre-designated (8 credits). One writing course (ENG 122) has been pre-designated (3 credits). You must choose another writing course from LAC Area 1b (3 credits). The remaining electives must fall into LAC Areas 3, 4, 5, 6, 7, and 8. Remember you should select courses from Areas 7 and 8 that also count for Areas 3, 4 or 5.**
- 3 ^c You need to complete 37 credits of University-wide Electives.

This program permits students to acquire the standard concepts of undergraduate mathematics including calculus, real and complex analysis, differential equations, linear and abstract algebra, discrete mathematics, probability and statistics. Graduates will be prepared to enter a graduate program in mathematics or some other related discipline such as statistics. They may also begin a career in a variety of quantitative settings, including branches of engineering, physical and social science, finance and management, law and medicine.