



DEGREE WORKSHEET FOR:
BS Mathematics, Applied Mathematical Sciences Emphasis
Applied Statistics Concentration
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 I (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 Math Sci (suggested elective)	1 credit		
YEAR 2- FALL (15 credits)		YEAR 2-SPRING (15 credits)	
MATH 233 Calculus III	4 credits	MATH 221 Elementary Linear Algebra	3 credits
MATH 350 Elementary Probability Theory	4 credits	MATH 351 Elementary Statistics Theory	3 credits
Liberal Arts Core ^b /Electives ^c	7 credits	Liberal Arts Core ^b /Electives ^c	9 credits
YEAR 3- FALL (15 credits)		YEAR 3- SPRING (15 credits)	
MATH 335 Differential Equations	3 credits	MATH/CS/STAT Elective ^d	3 credits
STAT 409 Sampling Techniques ^e	3 credits	Liberal Arts Core ^b /Electives ^c	12 credits
MATH 495 Topics in Mathematics ^a	3 credits		
Liberal Arts Core ^b /Electives ^c	6 credits		
YEAR 4- FALL (15 credits)		YEAR 4- SPRING (15 credits)	
STAT 406 Multiple Linear Regression ^e	3 credits	MATH/CS/STAT Elective ^d	3 credits
Liberal Arts Core ^b /Electives ^c	12 credits	Liberal Arts Core ^b /Electives ^c	12 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, Applied Mathematical Sciences Emphasis, Applied Statistics Concentration (cont.)

Notes

- ^a MATH 495 is only offered every ODD numbered fall
- ^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.**
- ^c You need to complete 39 credits of University-wide Electives.
- ^d You need to complete 6 additional credits from the concentration electives. Choose from: MATH 321, 322, 336, 341, 342, 375, 391, 431, 432, 460, or any CS course at the 300-level or higher, or any STAT course at the 300-level or higher.
- ^e STAT 406 and STAT 409 are offered every other fall in alternate falls. They may be taken in either order.

Applied Statistics Concentration focuses on statistical foundations and their applications to problems in varied disciplines, e.g. business, agriculture, medicine, law, literature, psychology and other social sciences, and on the design and analysis of statistical models in a wide variety of settings. Graduates are prepared for positions involving the design and analysis of statistical models in such areas as environmental, governmental, industrial, military, and social settings and for additional graduate study in the areas of applied statistics and operations research.