2012-2013

Bachelor of Science (BS) Non-Teaching **Program of Study for Statistics Majors**
Degree Code 289A **STATISTICS**

I. GENERAL EDUCATION CURRICULUM 44
Math 1110 will count toward Quantitative Literacy general education requirement.

II. MAJOR REQUIREMENTS (not including 4 s.h. counted in Area I, above) **.....61**
2.0 major GPA is required for graduation. Major GPA calculation will include <u>all</u> courses taken in the major department, plus any other courses under II. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.
An acceptable program of at least 65 semester hours but no more than 80, with a minimum of 34 hours in the Department of Mathematical Sciences.

A. Mathematics (15 hours)

MAT 1110	_____	(4)	Calculus w/ Analytic Geometry I *(Pre: MAT 1025 w/min grade C-)*
MAT 1120	_____	(4)	Calculus w/ Analytic Geometry II *(Pre: MAT 1110 w/min grade C-)*
MAT 2130	_____	(4)	Calculus w/ Analytic Geometry III *(Pre: MAT 1120 w/min grade C-)*
MAT 2240	_____	(3)	Introduction to Linear Algebra *(Pre: MAT 1120)*

B. Statistics (17-18 hours)

Choose one series:

STT 3820 _____ (3) Statistical Methods I *(Pre: STT 2810 or 2820)* **and** STT 3830_____(3) Statistical Methods II *(Pre: STT 3820)*

OR

*STT 3850 _____ (4) Statistical Data Anal I *(Pre: MAT 1110)* **and** STT 3851 ____(3) Stat. Data Anal II **[WID]** *(Pre: ENG 2001, STT 3850)*
*(*this sequence is preferred over the STT 3820 & 3820 sequence)*

AND

STT 4830	_____	(3)	Linear Regression Models *(Pre: MAT 2240, STT 3830)*
STT 4860	_____	(3)	Probability Models & Statistical Inference I *(Pre: MAT 2130)*
STT 4865	_____	(3)	Statistical Inference II *(Pre: STT 4860)*
STT 4870	_____	(2)	Senior Seminar in Statistics **[CAP]**

C. Select one (3 hours)

STT 3840	_____	(3)	Elementary Probability and Survey Sampling *(Pre: STT 2810 or 2820)*
STT 4820	_____	(3)	Design and Analysis of Experiments *(Pre: STT 3820)*

D. Five or six hours of approved electives** in Mathematical Sciences **and 6 hours of related* coursework** to bring total hours in AREA II to 65 hours.

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E. A "concentration" of at least 18 semester hours from disciplines outside mathematical sciences.**

*Related coursework may be outside mathematical sciences and must be approved by advisory committee
** Must be approved by advisory committee.

III. MINOR (optional)

IV. ELECTIVES (taken to total 122 hours for the degree) .....<u>17</u>
2 semester hours of free electives must be outside the major discipline **122**