APPLIED STATISTICS

BACHELOR OF SCIENCE IN APPLIED STATISTICS DATA SCIENCE OPTION

Student interested in Mathematics for Teacher Licensure, click here.

Curriculum

The matrix below is a sample plan for all coursework required for this program.

Freshman

Fall	Credits
ENGL 1013 Composition I [1]	3
USHG 1XXX U.S. History and Government [1]	3
MATH 1001 Orientation to Mathematics	1
MATH 2914 Calculus I	4
BUAD 2003 Business Information Systems	3
Total Hours	**14**

Spring	Credits
ENGL 1023 Composition II [1]	3
FAH 1XXX Fine Arts and Humanities Courses [1]	3
BDA 2003 Business Problem Solving	3
MATH 2924 Calculus II	4
STAT 2163 Introduction to Statistical Methods	3
Total Hours	**16**

Sophomore

Fall	Credits
SS 1XXX Social Science Courses [1]	3
MATH 2703 Discrete Mathematics	3
MATH 2934 Calculus III	4
STAT 2304 Programming Languages for Data Science	4
Total Hours	**14**

Spring	Credits
BDA 3053 Business Data Analysis	3
COMS 1011 Programming Foundations I Lab and COMS 1013 Programming Foundations I	4
STAT 3113 Regression Analysis	3
STAT 3153 Applied Statistics	3

Spring	Credits
Math/STAT Elective [3]	3
Total Hours	**16**

Junior

Fall	Credits
FAH 1XXX Fine Arts and Humanities Courses [1]	3
SCIL 1XXX Science with Laboratory [1]	4
COMS 2203 Programming Foundations II	3
MATH 4003 Linear Algebra I	3
STAT 4163 Mathematical Statistics	3
Total Hours	**16**

Spring	Credits
COMM 2173 Business and Professional Speaking	3
SCIL 1XXX Science with Laboratory [1]	4
COMS 2213 Data Structures	3
STAT 4153 Experimental Design and Analysis	3
MATH/STAT Elective [3]	3
Total Hours	**16**

Senior

Fall	Credits
SS 1XXX Social Science Courses [1]	3
STAT 4113 Categorical Data Analysis	3
STAT 4383 Machine Learning	3
COMS Elective [4]	3
Elective [2]	3
Total Hours	**15**

Spring	Credits
MATH 4971 Mathematics Senior Seminar	1
COMS Elective [4]	3
MATH/STAT Elective [3]	6
Elective [2]	3
Total Hours	**13**

[1]See appropriate alternatives or substitutions in "General Education Requirements".

[2]A minimum of 40 credit hours of the 120 total hours required for the B.S. degree must be 3000-4000 level courses.

[3]See catalog to assure pre-requisites are met. See advisor to select courses from: STAT 3183 Statistical Process Control, STAT 4393 Statistical Learning, MATH 4123 Mathematical Modeling, or a MATH/STAT course at the 3000-4000 level approved by advisor.

[4]See catalog to assure pre-requisites are met. See advisor to select courses from: COMS 3233 Database Design and Implementation, COMS 3243 Data Mining, COMS 4353 Artificial Intelligence, or a COMS course at the 3000-4000 level approved by advisor.