APPLIED STATISTICS, MS

Begun over 25 years ago, the Master's of Science in Applied Statistics is a highly respected program at the Manderson Graduate School of Business.

Students in the Master's of Science in Applied Statistics program can utilize the Marillyn A. Hewson Data Analytics Lab, taking advantage of cutting-edge technology in a collaborative environment. Students do not need a business degree to earn an MS in Applied Statistics. The Master of Science degree in Applied Statistics is a flexible program, allowing students to structure courses in a manner that complements their career objectives.

Admissions

Candidates for admission to applied statistics are normally expected to have completed courses in mathematics equivalent to three semesters of undergraduate calculus and to have a working knowledge of computer programming and linear or matrix algebra.

In addition to the minimum Graduate School admission requirements, to be considered for regular admission an application must include:

- A resume
- At least two letters of recommendation
- A TOEFL score of at least 79, an IELTS score of at least 6.5, a Duolingo score of at least 110, or a PTE score of at least 59 for non-native English speakers who are required to submit an English Language test score.

Note: A GRE/GMAT score is recommended but not required.

Students who do not meet these requirements, but who excel in other areas, may be considered for "Admission with Permission to Continue"

Accelerated Master's Program (AMP) students must meet the minimum admission requirements as listed in the AMP section of this catalog.

See the Admission Criteria section of this catalog for more information.

Curricular Requirements

The M.S. degree in Applied Statistics requires 30 hours to complete. Students can choose a Non-Specific course of study, or one of two Specialized Concentrations; Analytics or Statistics.

Required Core Courses:		Hours
ST 552	Applied Regression Analy	3
ST 553	Appld Multivariate Analy	3
ST 554	Math Statistics I	3
ST 555	Math Statistics II	3
ST 560	Statistical Methods	3
Choose the Non-specific course of study or the Analytics or Statistics concentration		
Total Hours		30

Approved Non-Specific Course of Study Electives

Students who choose the Non-Specific course of study, choose 15 hours of electives from the list below.

Non-Specific Course of Study Electives		Hours
ST 521	Statistical Data Management	3
ST 522	Adv Statistical Data Mgt	3
ST 531	Data Mining I	3
ST 532	Advanced Data Mining	3
ST 540	Stat Prog & Comp with R	3
ST 545	Intro Stat Learn & Data Mining	3
ST 561	Applied Design Expermnts	3
ST 547	Data Vis and Analytics in R	3
ST 597	Special Topics ((Statistical Consulting))	3
ST 597	Special Topics ((Stochastic Processes))	3
OM 500	MGT Science & Spreadsheet Mod	3
Or any other graduate level course with faculty approval.		

Statistics Specific Concentration

Statistics Concentration		Hours
Required Course		
ST 561	Applied Design Expermnts	3
Approved Electives: choose 4 classes from the list below.		**12**
ST 521	Statistical Data Management	3
ST 522	Adv Statistical Data Mgt	3
ST 531	Data Mining I	3
ST 532	Advanced Data Mining	3
ST 540	Stat Prog & Comp with R	3
ST 545	Intro Stat Learn & Data Mining	3
ST 561	Applied Design Expermnts	3
ST 547	Data Vis and Analytics in R	3
ST 597	Special Topics (Statistical Consulting)	3
ST 597	Special Topics (Stochastic Processes)	3
Or other electives with program coordinator approval.		
Required Core Classes		**15**
Total Hours		**30**

Analytics Specific Concentration

Analytics Concentration		Hours
Required Courses		
ST 521	Statistical Data Management	3
ST 522	Adv Statistical Data Mgt	3
ST 531	Data Mining I	3
ST 532	Advanced Data Mining	3
Approved Electives: choose 1 class from the list below.		**3**
ST 540	Stat Prog & Comp with R	
ST 545	Intro Stat Learn & Data Mining	
ST 561	Applied Design Expermnts	

ST 597	Special Topics (Statistical Consulting or Stochastic Processes)	
OM 500	MGT Science & Spreadsheet Mod	
Or other elective courses with faculty approval.		
Required Core Classes		**15**
Total Hours		**30**

Transfer Credit

Graduate School information on Transfer Credit.

Accelerated Master's Program

Information on the Accelerated Master's Program.

Comprehensive Exam/Capstone

When most coursework is completed, students must pass a written comprehensive examination. The exam can be waived if the student passes a professional exam from; the Actual P Exam, SAS Predictive Exam, or the ASQ Certified Quality Engineer Exam.

Time Limits for Degree Completion Requirements

Graduate School information on Time Limits.

Academic Misconduct Information

Graduate School information on Academic Misconduct.

Withdrawals and Leave of Absence Information

Graduate School information on Withdrawals and Leave of Absence.

Academic Grievances Information

Graduate School information on Academic Grievances.

Grades and Academic Standing

Graduate School information on Grades and Academic Standing.

Graduate School Deadlines Information

Information on Graduate School Deadlines.

Application for Graduation Information

Information on the Application for Graduation.