

Applied Statistics Masters

Department Information

- **Department Web Site:**
ndsu.edu/statistics/ (<http://ndsu.edu/statistics/>)
- **Application Deadline:**
Application deadline is March 15 for international students and applicants who would like an opportunity for an assistantship (if available)
- **Credential Offered:**
M.S.
- **Test Requirement:**
GRE
- **English Proficiency Requirements:**
TOEFL ibt 79; IELTS 6.5; Duolingo 105
- **Program Overview:**
<https://www.ndsu.edu/programs/graduate/statistics>

Apply Now (https://ndsugrad.my.site.com/Application/TX_SiteLogin/?startURL=/Application/TargetX_Portal__PB)

Code	Title	Credits
Complete a set of core courses* with a grade of B or better, including		15
STAT 661	Applied Regression Models	
STAT 662	Introduction to Experimental Design	
STAT 764 or STAT 874	Multivariate Methods Generalized Linear Models	
STAT 767	Probability and Mathematical Statistics I	
STAT 768	Probability and Mathematical Statistics II	
Complete an additional 9-12 hours (depends on number of research hours) of course work selected from the following courses:		9-12
STAT 660	Applied Survey Sampling	
STAT 663	Nonparametric Statistics	
STAT 664	Discrete Data Analysis	
STAT 669	Introduction to Biostatistics	
STAT 670	Statistical SAS Programming	
STAT 671	Introduction to the R Language	
STAT 672	Time Series	
STAT 673	Actuarial Statistical Risk Analysis	
STAT 677	Introductory Survival and Risk Analysis I	
STAT 678	Introductory Survival and Risk Analysis II	
STAT 730	Biostatistics	
STAT 732	Introduction to Bioinformatics	
STAT 770	Survival Analysis	
STAT 775	Using Statistics in Sports	
STAT 886	Advanced Inference	
STAT 796	Special Topics	
STAT 851	Bayesian Statistical Inference	
STAT 859	Applied Spatial Statistics	
Research (Master's Paper 2-4 credits; Master's Thesis 6-10 credits)		
STAT 798 or STAT 797	Master's Thesis Master's Paper	
Must have 15 hours of 700-800 level courses.		

*If one of these courses has been taken at the undergraduate level, another graduate level course should be substituted. STAT 725 Applied Statistics and STAT 726 Applied Regression and Analysis of Variance will not be counted for this degree program.

- A plan of study must be submitted at least one semester prior to graduation.
- Pass a written comprehensive exam. This exam consists of two sections. Exam 1 covers STAT 767 Probability and Mathematical Statistics I and STAT 768 Probability and Mathematical Statistics II. Exam 2 covers STAT 661 Applied Regression Models, STAT 662 Introduction to Experimental Design and STAT 764 Multivariate Methods or STAT 874 Generalized Linear Models. Exam 1 is two hours and Exam 2 is three hours. These exams are offered during approximately the fifth week of each semester. A maximum of two attempts is allowed.
- Complete and successfully defend the research thesis or paper.

Admission and Application Requirements

- Graduate School admission and application requirements are found on the Admission Information (<http://catalog.ndsu.edu/graduate/admission-information/>) page.
- In addition, this program requires applicants to:
 - Have had at least one year of calculus,
 - Have had at least one course in statistics, and
 - Have had at least one programming language