

# Statistics Doctorate

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## Department Information

- **Department Chair:**  
Rhonda Magel, Ph.D.
- **Department Location:**  
Minard Hall 334
- **Department Web Site:**  
ndsus.stats@ndsus.edu (<http://ndsus.stats@ndsus.edu>)
- **Application Deadline:**  
Application deadline is March 15 for international students and applicants who would like an opportunity for an assistantship if available.
- **Credential Offered:**  
Ph.D.
- **Test Requirement:**  
GRE (recommended)
- **English Proficiency Requirements:**  
TOEFL ibt 79; IELTS 6.5; Duolingo 105

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Code	Title	Credits
<b>Core Courses</b>		
STAT 661	Applied Regression Models	3
STAT 662	Introduction to Experimental Design	3
STAT 764	Multivariate Methods	3
or STAT 874	Generalized Linear Models	
STAT 767	Probability and Mathematical Statistics I	3
STAT 768	Probability and Mathematical Statistics II	3
Additional statistics courses, not including STAT 725 or STAT 726		30
If not taken at the M.S. level, student must take STAT 764, STAT 774, STAT 786.		
STAT 899	Doctoral Dissertation	
<b>Total</b>		<b>60</b>

All students must:

1. Complete a set of core courses with a grade of B or better including STAT 661, 662, 767, 768, and 764 or 874. Most of these courses will be completed during your M.S. degree. Without permission, a maximum of two of the courses can be used to count on your plan of study.
2. Complete an additional 30 semester credits of statistics courses at the 600- to 800-level (does not include STAT 711, 712, 713, 714, 725 or 726 ). At least 15 credits must be at the 700- to 800- level.
3. Upon approval by the adviser and supervisory committee, up to 9 hours may be taken in Mathematics or Computer Science. It is recommended that a student have knowledge of real analysis at some level such as MATH 650 Real Analysis I and MATH 750 Analysis.
4. Pass a written comprehensive exam. This exam consists of two sections. Exam 1 covers STAT 767 and STAT 768. Exam 2 covers STAT 661, STAT 662 and STAT 764 or STAT 774. Exam 1 is two hours and Exam 2 is three hours. These exams are offered during approximately the fifth week of each semester (fall and spring). A maximum of two attempts is allowed.
5. STAT 899 research credits can not be taken during the first two semester in the graduate program at NDSU. Summer does not count as a semester.

\*Some of these requirements may be satisfied upon admittance into the program with an already existing M.S. degree in Statistics.

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## **Admission and Application Requirements**

Graduate School admission and application requirements are found on the Admission Information (<http://catalog.ndsu.edu/graduate/admission-information/#admissionrequirements>) page.

In addition to the Graduate College requirements, the applicant must have an M.S. degree in statistics or related area. Applicants to the Statistics with and emphasis in Sports Statistics some knowledge or interest in sports.