

Applied Statistics - Master of Science

Program requirements

Admission

Students seeking admission to the program must have a B.S. or B.A. degree from an accredited institution and must have taken the following prerequisite courses:

1. At least three semesters of calculus (UWL equivalents MTH 207 Calculus I, MTH 208 Calculus II, and MTH 310 Calculus III: Multivariable Calculus)
2. At least one semester of probability/statistics (UWL equivalent STAT 245 Probability and Statistics)

Students who lack any of these prerequisites must take additional courses (not counted for credit toward the M.S. Program) to meet the prerequisites requirement. A cumulative grade point average (GPA) of 2.50/4.00 is required in these courses.

Students who have already completed STAT 441, STAT 442, STAT 445, or STAT 446 at UWL (or equivalent content elsewhere) should consult with the M.S in Applied Statistics Program (<https://www.uwlax.edu/grad/statistics>) Director regarding required statistics core course options.

Curriculum

(36 credits)

Each student in the program should complete 24 credits of course work and 12 credits of thesis work. The course work consists of four required core courses and four elective courses.

Code	Title	Credits
Core		
STAT 541	Mathematical Statistics I	3
STAT 542	Mathematical Statistics II	3
STAT 545	Correlation and Regression Analysis	3
STAT 546	Analysis of Variance and Design of Experiments	3
Electives		
Select 12 credits from the following, with at least 6 credits at the 700-level		12
STAT 543	Categorical Data Analysis	
STAT 547	Nonparametric Statistics	
STAT 549	Applied Multivariate Statistics	
STAT 762	Bayesian Statistics	
STAT 763	Survey of Modern Statistical Software	
STAT 764	Statistical Learning	
STAT 766	Biostatistics	
Graduate Thesis		
STAT 799	Master's Thesis (take at least two semesters, maximum of six per semester)	12
Total Credits		36

Degree requirements

Graduate degree requirements

After being admitted to the program of one's choice, candidates for a graduate degree must:

1. Complete any preliminary course work and deficiencies.
2. Complete all courses and other program requirements, including residence requirements prescribed for the degree desired in the respective school or college within a seven-year period from the date of initial enrollment.
3. Earn a minimum of 30 credits for a master's degree; 54 credits for a doctorate or post-master's degree. Earn at least one-half of the minimum number of credits required in the program in graduate-only level courses (700, 800, 900, and non-slash 600 level courses).
4. Earn a cumulative grade point average of at least 3.00.
5. Satisfy dissertation, thesis, seminar paper, terminal/graduate projects and internships, or comprehensive examination, where applicable. A dissertation or thesis approved by the committee must be submitted to the Director of Graduate Studies for approval at least two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Director of Graduate Studies. However, if the seminar paper or project report is to be archived in Murphy Library, the student must follow the same rules as they apply to the dissertation/thesis requiring approval from the Director of Graduate Studies. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/graduate-studies>), see the Office of Graduate Studies.
6. File a completed "Intent to Graduate" form online via the WINGS Student Center immediately following registration for the final semester or summer term in residence. December graduates and winter intersession should file by May 1. May and summer graduates should file by December 1.
7. Pay the graduation fee and remove all other indebtedness to the university. Payment of graduation fees does not imply readiness for graduation and does not take the place of applying for graduation.
8. Complete all requirements within 30 days after the official ending date of a term in order for a degree to be awarded for that term. (See #5 above for separate deadline for written capstone experience.)