

# 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 two semesters of calculus (UWL equivalents MTH 207 Calculus I and MTH 208 Calculus II)
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

(30 credits)

#### Required courses (12 credits):

Code	Title	Credits
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
<b>Total Credits</b>		<b>12</b>

#### Elective courses (12 credits):

Select 12 credits from the following list. At least nine elective credits must be at the 700-level.

Code	Title	Credits
STAT 543	Categorical Data Analysis	3
STAT 544	Environmental Statistics	3
STAT 547	Nonparametric Statistics	3
STAT 549	Applied Multivariate Statistics	3
STAT 762	Bayesian Statistics	3
STAT 763	Survey of Modern Statistical Software	3
STAT 764	Statistical Learning	3
STAT 766	Biostatistics	3

#### Graduate project portfolio (6 credits):

Students enrolling in STAT 543, STAT 545, STAT 546, STAT 547, STAT 549, STAT 762, STAT 763, STAT 764, or STAT 766 must enroll at the same time in one credit of STAT 796 per accompanying course. In STAT 796, students complete a project related to the content of the accompanying course. STAT 796 can be taken multiple times in the

same term. A total of six credits of STAT 796 are required for completion of the program.

Code	Title	Credits
STAT 796	Graduate Project in Applied Statistics (one credit, repeated six times)	6

## University requirements

### University 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, with the exception of students enrolled in the Student Affairs Administration and Leadership Ed.D. (SAA Ed.D.) graduate program. SAA Ed.D. students must complete all degree requirements within ten years from the time of initial enrollment in the graduate program.
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). Some UWL graduate programs require more than 30 graduate credits. Please review the individual program requirements (<http://catalog.uwlax.edu/graduate/programrequirements/>) listed in the catalog for the exact number of credits required.
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 Graduate & Extended Learning for editorial review and approval by the Dean of Graduate & Extended Learning. The recommended initial submission date for review is two weeks before commencement. Ordinarily, a seminar paper or project report does not have to be approved by the Dean of Graduate & Extended Learning. 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 Dean of Graduate & Extended Learning. For further research/dissertation/thesis guidelines (<https://www.uwlax.edu/gel/graduate-education/thesis-and-dissertation/>), see Graduate & Extended Learning.
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.)