

Data Science - Master of Science

Program requirements

Admission

To be admitted to this program, candidates must meet the following requirements:

1. Admitted to UWL graduate school (<https://www.uwlax.edu/admissions/apply/graduate-student/>)
2. Completed the following three courses:
 - a. Elementary Statistics
 - b. Introduction to Programming
 - c. Introduction to Databases

Curriculum

36 credits

Code	Title	Credits
Required courses:		
DS 700	Foundations of Data Science	3
DS 705	Statistical Methods	3
DS 710	Programming for Data Science	3
DS 715	Data Warehousing	3
DS 730	Big Data: High Performance Computing	3
DS 735	Communicating about Data	3
DS 740	Data Mining and Machine Learning	3
DS 745	Visualization and Unstructured Data Analysis	3
DS 760	Ethics of Data Science	3
DS 775	Prescriptive Analytics	3
or DS 776	Deep Learning	
DS 780	Data Science and Strategic Decision Making	3
DS 785	Capstone	3
Total Credits		36

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.)