Master of Science in Data Science

The University of Wisconsin - Green Bay, the University of Wisconsin – Eau Claire, the University of Wisconsin - La Crosse, the University of Wisconsin – Oshkosh, the University of Wisconsin – Stevens Point, and the University of Wisconsin – Superior in collaboration with the University of Wisconsin – Extension are offering a Master's of Science in Data Science. This master's program is entirely online and will teach you how to harness the power of big data using the latest tools and analytical methods. The program focuses on how to clean, organize, analyze, and interpret structured and unstructured data, deriving knowledge and communicating your discoveries clearly to stakeholders. It is a 12-course, 36 credit program and is taught by expert faculty.

This program will prepare you to how to realize value from big data and make better decisions. The insight gained could help organizations public, private or non-profit in enhancing customer engagement, optimizing operations, identifying and preventing fraud, and generating new sources of revenue among others. The program offerings are relevant for virtually any industry- health care, retail, marketing, manufacturing, transportation, communication, education, insurance, finance, security, law enforcement, and more.

Admission Requirements

- Baccalaureate degree from a regionally accredited institution
- 3.0 grade point average. Applicants with a GPA of less than 3.0 may be considered for provisional admission.
- UW System application form (apply.wisconsin.edu (https://apply.wisconsin.edu/))
- $56.00 application fee
- Prerequisite courses: Recent coursework in elementary statistics, introductory computer programming and introduction to databases. Relevant work experience can be considered in lieu of this coursework. Contact the Chair of the MS in Data Science Program for details.
- Official transcripts from colleges and universities previously attended*
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    - If you attended less than 9 credits you do not have to send an official transcript unless the courses completed were pre-requisites for the program. Study abroad transcripts are not required if a student attended an international University for one or fewer semesters. The University of Wisconsin-Green Bay retains the right to request additional official transcripts from all/or additional postsecondary institutions of higher learning attended by an applicant.
- A personal statement of up to 1,000 words describing the reasons behind your decision to pursue this degree and what you believe you will bring to the data science field. Space for the personal statement is included in the online application.
- Resume
- MSDS Questionnaire (http://uwgreenbay.ca1.qualtrics.com/jfe/form/SV_43pAC2VwLpZ3sJ7/): Applicants must complete this questionnaire
- International students will also need to provide the following documentation:
    - A test of English proficiency (TOEFL or IELTS)
    - Course-by-course transcript evaluation from a professional evaluation service currently recognized by NACES (www.naces.org (http://www.naces.org/)).   UW-Green Bay recommends one of the following evaluation services:
        - Educational Credential Evaluators (ECE (http://www.ece.org/))
        - World Education Services (WES (http://www.wes.org/))
    - Please note that this program is entirely online. International students are welcome to apply for and enroll in an online program. However, they are unable to apply for an F-1 or J-1 visa based on enrollment in this program.

*Official electronic transcripts must be sent to UWGB Admissions at uwgb@uwgb.edu directly from the institution that issued the transcript.

Degree Requirements

Code	Title	Credits
Core Curriculum		
DS 701	Exploratory Data Analysis	3
DS 705	Statistical Methods	3
DS 710	Programming for Data Science	3
DS 716	Data Management for Data Science	3
DS 730	Big Data: High-Performance Computing	3
DS 740	Data Mining	3
DS 750	Data Storytelling	3
DS 770	Ethical Decision-Making Using Data	3
DS 776	Deep Learning	3

DS 785	Capstone	3
Total Credits		**30**

Progress to Degree

1. The candidate applies to the Master of Science in Data Science program by submitting the appropriate application materials.
2. The candidate is admitted to the Master of Science in Data Science program by the University of Wisconsin-Green Bay program Chair.
3. The student fulfills the degree requirements for the program.
4. The student is awarded a Master of Science in Data Science degree from the University of Wisconsin-Green Bay.

Faculty

Sampath Kumar; Professor; Ph.D., University of Memphis*

Praneet Tiwari; Associate Teaching Professor; M.S., University of North Texas*