



## **MASTER OF SCIENCE IN STATISTICS: STATISTICS & DATA SCIENCE OPTION**

The MS Statistics: Statistics & Data Science (MSDS) program from UW-Madison combines a background in statistical theory, methods, and practice related to data science with communication skills to train a new generation of leaders who will use data effectively for planning and decision making.

Leveraging the power of statistical thinking will prepare you to put data into context and communicate its meaning to others. You will build analytical, reasoning, and communication skills in realistic strategic planning sessions. As a result, the MSDS will provide you with strong skills in working in teams of professionals and business leaders and in leading discussions grounded in data reasoning.

### **ONE-YEAR PATHWAY**

The MSDS one-year pathway makes it possible for those who have completed a bachelor's degree at UW-Madison with a major in Statistics, Data Science, Math, Computer Sciences, or some Engineering fields to complete the MSDS degree in one calendar year. Students will graduate with a Master of Science in Statistics: Statistics & Data Science degree after completing graduate coursework in a fall, spring, and summer semester. Eligible students can transfer a maximum of 7 credits from undergrad to MSDS.

### **PROGRAM REQUIREMENTS**

To be eligible for the one-year MSDS pathway, students must have completed one Statistics undergraduate elective course or one 500+ level course outside of Statistics, such as MATH 632, at the University of Wisconsin-Madison.

#### **Prerequisite Courses:**

MATH 221, 222, 234  
Linear Algebra (i.e. MATH 340, 341, or 375)  
Upper-level analysis (i.e. MATH 421 or 521)

#### **Recommended Courses:**

STAT 303, 304, and 305  
STAT 309, 311, or 431  
STAT 310

#### **Fall Course Requirements:**

STAT 601 - Statistical Methods I (4 credits)  
STAT 605 - Data Science Computing Project (3 credits)  
STAT 610 - Introduction to Statistical Inference (4 credits)

#### **Spring Course Requirements:**

STAT 615 - Statistical Learning (3 credits)  
STAT 628 - Data Science Practicum (3 credits)  
Statistics graduate-level electives (6 credits)

#### **Summer Course Requirements:**

Elective(s) if needed (3-6 credits)

If you are interested in learning more about the MSDS one-year pathway, please visit our website or email the MSDS program coordinator at [visp-msds@stat.wisc.edu](mailto:visp-msds@stat.wisc.edu).