UMW-VSE/Mason Pre-Master's Program
Data Analytics Engineering, MS

The MS in Data Analytics Engineering educates students in the approaches and tools for data-driven decision-making. Its graduates are prepared to undertake groundbreaking work involving data mining, information technology, statistical modeling, predictive analytics, optimization, risk analysis, and data visualization, in the fields of data science, finance, marketing, operations, and business and government intelligence.

Benefits of enrolling:
The UMW-VSE/Mason Pre-Master's Program allows UMW students to earn up to nine credit hours of selected George Mason University (Mason) graduate courses for credit toward their UMW undergraduate degrees. UMW students subsequently admitted to the VSE/Mason MS in Data Analytics Engineering program may then apply those same graduate credit hours toward their MS. Students are referred to the following program links for full information: volgenau.gmu.edu and catalog.gmu.edu/colleges-schools/engineering/.

Program eligibility:
UMW students entering the UMW-VSE/Mason Pre-MS Program in Data Analytics Engineering have completed 90 credit hours toward their UMW undergraduate degrees in math, computer science, or a physical science with a cumulative GPA $\geq$ 3.30 in their major. UMW courses must have included a minimum of one course in each of calculus, statistics, and computer programming.

Getting started:
Students begin the application process through the UMW Assistant Dean of Arts and Sciences. Students are encouraged to meet with the Assistant Dean at the start of their junior year to plan their UMW curriculum for admission to the Pre-MS Program.

VSE/Mason courses:
The following UMW-VSE/Mason Pre-MS Program courses are eligible for undergraduate credit at UMW and for subsequent credit toward the VSE/Mason MS in Data Analytics Engineering.
- AIT 580 – Analytics: Big Data to Information (3 credit hours)
- CS 504 – Principles of Data Management and Mining (3 credit hours)
  - Required UMW prerequisite: CPSC 340 and STAT 381 (grades of B or better)
- OR 531 – Analytics and Decision Analysis (3 credit hours)
- STAT 515 – Applied Statistics and Visualization for Analytics (3 credit hours)
  - Required UMW prerequisite: STAT 180 (grade of B or better)

Typically, graduate courses are offered with a start time of either **4:30pm** or **7:20 pm**

For VSE graduate programs tuition and fees, visit: https://studentaccounts.gmu.edu/tuition-fees/