Data Analytics & Applications

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Degree Requirements

The Master of Data Analytics & Applications program requires the successful completion of 30 units of graduate course work, including 21 units of required core courses and 9 units of electives. New students without evidence of math and programming proficiency will be required to take 6 units of bridge courses.*

Required Courses: 21 units

- Enterprise Data Management  
- Analytics Applications  
- Applied Data Analytics for Practitioners  
- Data Engineering Foundations of Data Analytics  
- Data Visualization and Storytelling  
- Introduction to Relational Databases and SQL Programming  
- Applied Machine Learning

Elective Courses: 9 units

Choose from options such as the following:

- Applied Natural Language Processing  
- Applications of Deep Neural Networks  
- Applied Simulation Modeling  
- Architectural Data Analytics Applications  
- Special Topics in Data Analytics and Applications  
- Applied Research Study

* Proficiency in introductory statistics, linear algebra and Python are required for admittance into the program. The School of Continuing & Professional Studies and the McKelvey School of Engineering offer two introductory bridge courses covering these subject areas:

1. Foundations of Programming for Data Analytics & Applications (U71 DATA 5001).
   
   a. Students with proficiency in Python may have the requirement to take Foundations of Programming for Data Analytics & Applications waived. Proficiency is established with a B or better in an introductory Python programming course or relevant work experience (as evaluated by the program director or delegated evaluator).

2. Foundations of Mathematics for Data Analytics & Applications (U71 DATA 5002).