University of Southern California
VITERBI SCHOOL OF ENGINEERING

Master of Science in Analytics
Program Learning Objectives

The purpose of the USC Viterbi School of Engineering Master of Science in Analytics Program is to prepare students for a successful career in Analytics and Data Science. These are positions that require the application of engineering methods to data-driven analysis and management of engineering and business processes and operations.

Upon completion of the Viterbi School of Engineering MS in Analytics students will:

- demonstrate advanced understanding of the technical fundamentals of descriptive, predictive, and prescriptive analytic methodologies;

- be able to summarize and present complex data, applying machine learning methods to predict the results of different complex scenarios and converting the data into actionable insights;

- produce powerful analytics to make well informed decisions; and

- demonstrate advanced understanding of contemporary model-based analytics and associated computational methods that support sound operational decision making in various sectors.