The focus of the Data Science option is to develop IT professionals with skills in analytics. In particular, we not only provide knowledge and skills in descriptive, predictive and prescriptive analytics, but also the underlying technological platforms that are needed to support the analytics needs of business. Our program places particular emphasis on big data, warehouse, visualization and open source technologies, as well as on open-source programming using R and Python (among others) for analytics. All our courses are delivered by specialist PhDs with deep analytics and technical skills. The option includes coursework on big data analytics using Hadoop and R, data mining using SAS, predictive analytics using IBM Modeler, and prescriptive analytics.

Our on-line corporate program is geared towards enhancing existing skills and developing new skills for IT professionals in industry. All courses required for the MS in MIS degree, including the data science option, will be offered online.

The program provides communication, technical and business skills necessary for the successful use of information systems and analytics in modern organizations. One of our student teams won the best paper award at Teradata Partners meeting in 2015. Our students placed first and third in Oklahoma State University's inaugural 3-minute presentation (3MP) competition. Graduates of our program have been hired in companies such as 1010data.com, PCI, Credera, Babson Capital Management, PwC, CapGemini, Data-Mail Inc., among others.

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