

Data Science and Analytics Program

On-campus and online options available



MS IN MIS PROGRAM

The Master of Science in Management Information Systems Program (MS in MIS) focuses on providing solutions to business information and data needs. The MS-MIS program was ranked No. 29 in the North American rankings for Information Systems programs in 2015-16 in the Eduniversal Best Masters ranking. The program was No. 23 among universities in the United States. In addition, our online master's in MIS is ranked No. 14 in the Top 50 Online Masters Degrees in Information Technology Management 2015, according to Eduniversal.com. The program was started in 1998 and has over 1000 graduates. The core curriculum for the 34-hour program includes courses on MIS in business, database management, data warehousing, systems analysis, programming for analytics, descriptive analytics, visualization and professional development. The MS in MIS program is a designated STEM program.

DATA SCIENCE OPTION

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.

CORPORATE PROGRAM

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.

OUTCOMES

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.

Watson Graduate School of Management | 102 Gundersen Hall | Stillwater, OK 74078
Phone: 405.744.9000 | Fax: 405.744.7474 | Email: mis-analytics@okstate.edu | Web: mis-analytics.okstate.edu



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