

Master of Science Operations Management

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A results-based program providing students with the knowledge to become the operating officers of tomorrow.

The Master's of Science in Operations Management program focuses on streamlining the management of the resources and activities that produce or deliver the goods and services of a business. Many of the most esteemed data systems operating the processes and activities of worldwide business are designed by operations managers. Manderson is committed to producing graduates of the highest caliber, ready to take on leadership roles in industry.

Operations management focuses on the analysis, design, and management of the operations that produce and deliver goods and services. It applies structured, quantitative techniques to analyze and design business operations and to support effective business decision making. Operations management helps evaluate and select actions based on information, process analysis, and quantitative modeling. There are tremendous opportunities for the effective application of these tools, techniques, and methods in a wide range of business operations including service operations, manufacturing, distribution, transportation, logistics, supply chain management, revenue management, quality management, finance, human resources, information systems, marketing, and strategic planning. Operations management can be effectively applied to virtually every component of an organization.

About the program:

The master's program in Operations Management is offered both on campus and online. The degree requires 30 hours of coursework (10 courses). Students who want to pursue this degree program part-time while continuing

to work can choose between the two-year and three-year schedules for completing the degree online.

There are two tracks offered in the Masters of Science in Operations Management Program: **Operations Management** and **Decision Analytics**.

About the tracks:

Operations Management

This track in the Operations Management master's degree is designed to prepare students for the practice of operations management. The program is structured to provide instruction in materials management, scheduling and control, supply chain management, and quality control as well as topics in applied quantitative methods such as optimization, statistics, and simulation.

Decision Analytics

The concept for this track is to offer an Operations Management master's degree that combines the prescriptive modeling and analytical skills arising from the OM program with the data management and data mining skills from the SAS-UA Data Mining certification program offered in the Statistics program.



Culverhouse
College of Business

Information Systems, Statistics and
Management Science



Master of Science

Operations Management

Focused Area of Study I: Operations Management	Number of Credit Hours
OM 500 MGT Science & Spreadsheet Mod	3
OM 517 Supply Chain Modeling & Analys	3
OM 522 Operations Scheduling Problems	3
OM 523 Inventory Management	3
OM 524 Mfg Sched & Control Systems	3
OM 540 Systems Simulation	3
ST 560 Statistical Methods	3
One Restricted Elective (choose one from the following)	
OM 525 Effective Quality Management	3
ST 575 Statistl Quality Control	3
Electives (approved by the program coordinator)	6
Total Hours	30

Decision Analysis Track	
ST 560 Statistical Methods	3
ST 521 Statistical Data Management	3
ST 531 Data Mining I	3
ST 532 Advanced Data Mining	3
OM 500 MGT Science & Spreadsheet Mod	3
OM 540 Systems Simulation	3
Two OM Electives (choose two from the following):	
OM 517 Supply Chain Modeling & Analys	6
OM 522 Production Scheduling Problems	
OM 523 Inventory Management	
OM 524 Mfg Sched & Control Systems	
One Restricted Elective (choose one from the following)	
ST 522 Adv Statistical Data Mgt	3
MIS 541 Business Analytic Support Sys	
Total Hours	30

Contact us for more information:

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