

# SUPPLY CHAIN AND OPERATIONS RESEARCH ANALYTICS - UNDERGRADUATE MINOR

Prefix	Title	Credits
<b>Course Requirements</b>		
<i>Required Courses</i>		
MGMT 351	Supply Chain Management	3
<i>Choose 3 credits from the following</i>		3
I E 425	Supply Chain Modeling and Analysis	
I E 456	Large Scale Systems Engineering	
<i>Technical Elective Courses (Choose 6-7 credits from the following)</i>		6-7
Track One - Data Analytics		
I E 311	Engineering Data Analysis	
A ST 311	Statistical Applications	
STAT 3110	Statistics for Engineers and Scientists	
I E 460	Evaluation of Engineering Data	
STAT 4210	Probability: Theory and Applications	
E E 465	Machine Learning I	
BCIS 461	Business Analytics I	
BCIS 466	Business Analytics II	
BCIS 475	Database Management Systems	
CSCI 4140	Database Management Systems I	
CSCI 4415	Introduction to Data Mining	
CSCI 2220	Introduction to Data Structures and Algorithms	
Track Two - Optimization		
I E 413	Engineering Operations Research I	
I E 423	Engineering Operations Research II	
I E 424	Manufacturing Systems	
CHME 392	Numerical Methods in Engineering	
CSCI 2310	Discrete Mathematics for Computer Science	
MGMT 344	Production and Operations Management	
MGMT 470	Project Management in Organizations	
BCIS 485	Enterprise Resource Planning	
Track Three - Computer Programming and Applications		
I E 351	Applied Problem Solving in Industrial Engineering	
I E 467	Discrete-Event Simulation Modeling	
BCIS 321	Introduction to Software Development and Programming	
ICT 352	Software Technology I	
CSCI 2210	Object-Oriented Programming	
CSCI 2230	Assembly Language and Machine Organization	
CSCI 3720	Data Structures and Algorithms	
CSCI 3790	Algorithm Design & Implementation	
<i>Applications in Engineering &amp; Business (Choose 6 credits from the following)</i> <sup>1</sup>		6
A E Courses 400-level (With approval of advisor and instructor)		
C E Courses 400-level (With approval of advisor and instructor)		
CHME Courses 400-level (With approval of advisor and instructor)		
E E Courses 400-level (With approval of advisor and instructor)		
E T Courses 400-level (With approval of advisor and instructor)		
I E Courses 400-level (With approval of advisor and instructor)		

M E Courses 400-level (With approval of advisor and instructor)	
ACCT Courses 400-level (With approval of advisor and instructor)	
BCIS Courses 400-level (With approval of advisor and instructor)	
BFIN Courses 400-level (With approval of advisor and instructor)	
MGMT Courses 400-level (With approval of advisor and instructor)	
CSCI Courses 400-level (With approval of advisor and instructor)	
A ST Courses 400-level (With approval of advisor and instructor)	
<b>Total Credits</b>	<b>18-19</b>

<sup>1</sup> Courses numbered 450 or above may be used to satisfy course requirements for the Master's Accelerated Program (<https://enr.nmsu.edu/students/Fifth-page.html>) (requires department head approval)