



Master of Science Sample Curriculum

Research Area: Operations Research (Network Optimization)

Degree Pursing: MS IE (non-thesis)

Courses (Minimum Enrollment 12 hours/8 hours if 25% assistantship or greater)

1 st Semester (fall)		2 nd Semester (spring)	
Course	Credits	Course	Credits
IE 410: Stochastic Processes & Applic	4	IE 511: Integer Programming	4
IE 411: Optimization of Large Systems	4	IE 598 LM: Optimization Methods for Large-Scale, Network-Based Systems	4
IE 512: Network Analysis of Systems	4	IE 510: Applied Nonlinear Programming -or-	4
-or-		IE 521: Convex Optimization -or-	4
IE 532: Analysis of Network Data	4	IE 530: Optimization for Data Analytics	4
Total	12	Total	12

3 rd Semester (fall)	
Course	Credits
IE 598 NK: Info Theory for Operations Res -or-	4
IE 529: Stats of Big Data & Clustering	4
IE 498 JG: Computing for ISE -or-	3
IE 531: Algorithms for Data Analytics	4
IE 597: Independent Study	4
Total	11-12

Disclaimer: This sample curricula should be used as a guide for students. See degree requirements for your specific degree and adjust as necessary to meet your program requirements and educational goals.