



Master of Science Sample Curriculum

Research Area: Operations Research (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 510: Applied Nonlinear Programming -or- IE 521: Convex Optimization -or-	4
IE 512: Network Analysis of Systems	4	MATH 540: Real Analysis -or- MATH 541: Functional Analysis -or-	4
-or-		ECE490 Introduction to Optimization	4
IE 532: Analysis of Network Data	4		
Total	12	Total	12

3 rd Semester (fall)	
Course	Credits
IE 598 NH: Big Data Optimization	3
IE 529: Stats of Big Data & Clustering	4
CS 573: Algorithms -or- CS 574: Randomized Algorithms	4
IE 597: Independent Study	4
Total	15

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.

Offered every semester	Offered every fall	Offered every spring
Offering varies	Offered fall-even years	Offered spring-odd years
Fall-varies	Offered fall-odd years	Spring-varies