



Master of Science Sample Curriculum

Research Area: Financial Engineering

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 420: Financial Engineering	4
IE 411: Optimization for Large Systems	4	IE 413: Simulation	4
IE 529: Stats of Big Data & Clustering	4	IE 510: Applied Nonlinear Programming -or-	4
-or-		IE 521: Convex Optimization	4
IE 598 AC: Stat Infer for Stoch Sys	4		
Total	12	Total	12

3 rd Semester (fall)	
Course	Credits
IE 598 JS: Neural Ntwks and Deep Learning	4
IE 598 NH: Big Data Optimization	3
MSFE/Analytics	4
Course*/Statistic/Finance -or-	4
IE 597: Independent Study	
IE 498 JG: Computing for ISE	3
Total	14

*MSFE courses: IE 522, 523, 524, 525, 526 (must obtain permission from MSFE); Analytics courses: IE 528, 529, 530, 531, 532, 533

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.