



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 Course*/Statistics/Finance -or-	4
IE 597: Independent Study	4
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.

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