

Name: _____ ID#: _____ Term Admitted: _____

Eighteen units must be in the major earned in the ISE Department.

Graduate courses used toward a degree completed elsewhere may not be applied toward a master's degree at USC. If courses were not used toward a completed degree, the maximum number of transfer credits that may be applied towards a 30 unit master's degree, subject to departmental approval, is four units.

Required Prerequisite Courses

A computer programming language
Calc-based Probability and Statistics (e.g., ISE 220, ISE 225)

MAJOR - REQUIRED COURSES – 12 Units

Semester	Course	Prerequisite
	DSCI 559 Introduction to Data Management (3, Sp)	
	ISE 529 Predictive Analytics (3, Fa)	
	ISE 530 Optimization Methods for Analytics (3, Fa)	
	ISE 535 Data Mining (3, Sp)	

Select one course from Group A – 3 Units

Group A:

Semester	Course	Prerequisite
	ISE 533 Integrative Analytics (3, Sp) *	ISE 529, ISE 530
	ISE 534 Data Analytics Consulting (3, Sp)	
	ISE 580 Performance Analysis with Simulation (3, FaSp) *	

Select two courses from Group B – 6 Units

Group B:

Semester	Course	Prerequisite
	ISE 533 Integrative Analytics (3, Sp) *	ISE 529, ISE 530
	ISE 537 Financial Analytics (3, FaSp)	
	ISE 538 Performance Analysis using Markov Models (3, Sp)	
	ISE 540 Text Analytics (3, Fa)	
	ISE 562 Decision Analysis (3, FaSp)	
	ISE 580 Performance Analysis with Simulation (3, FaSp) *	

* may count towards Group A or Group B but not both

Electives – 9 units, subject to approval by advisor –

Semester	Course	Prerequisite
	1- ISE Elective (3 units)	
	1- Free Elective subject to advisor's approval (3units)	
	1- Free Elective subject to advisor's approval (3units)	

Master of Science in Analytics
Total 30 units