

Name \_\_\_\_\_

ID# \_\_\_\_\_

Term Admitted: \_\_\_\_\_

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

*Twenty One units must be at 500 level or above.*

*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**

Computing

Linear Algebra & Diff. Eq. (e.g. Math 225)

Probability & Statistics (e.g. ISE 220, ISE 225)

Engr. Economy (e.g. ISE 460)

**MAJOR - REQUIRED COURSES – 12 Units**

Semester	Course	Prerequisite
	ISE 513 – Inventory Systems (3, Sp)	
	ISE 514 – Advanced Production Planning and Scheduling (3, FaSpSm)	
	ISE 515 – Engineering Project Management (3, FaSpSm )	
	ISE 583 – Enterprise Wide Information Systems (3, FaSpSm)	

**Select one course from the following Groups – 9 unit**

***Group A:***

Semester	Course	Prerequisite
	ISE 530– Optimization Methods for Analytics (3, FaSp)	
	ISE 536– Linear Programming and Extensions (3, FaSp)	MATH 225 or EE 441

***Group B:***

Semester	Course	Prerequisite
	ISE 525 – Design of Experiments (3, Sp)	ISE 225
	ISE 527 – Quality Management for Engineers (3, FaSp)	

***Group C:***

Semester	Course	Prerequisite
	ISE 538 – Performance Analysis Using Markov Models (3, Fa)	
	ISE 580 – Performances Analysis with Simulation (3, FaSp)	

***Electives – 9 units, subject to approval by advisor***

Semester	Course	Prerequisite

***Master of Science in Industrial & Systems Engineering  
Total 30 units***