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 masters degree, subject to departmental approval, is four units.

MAJOR - REQUIRED COURSES – 12 Units

Semester	Course	Prerequisite
	ISE 500 – Statistics for Engineering Managers (3, FaSp)	
	ISE 515 – Engineering Project Management (3, FaSpSm)	
	ISE 544 – Leading and Managing Engineering Teams (3, FaSpSm)	
	ISE 561 – Economic Analysis of Engineering Projects (,3 FaSp)	**ISE 500**

Required Analytics Course – Select one (3-4units)

Semester	Course	Prerequisite
	DSCI 552 – Machine Learning for Data Science (4, FaSp)	
	ISE 529 – Predictive Analytics (3, FaSp)	
	ISE 530 - Optimization Methods for Analytics (3, FaSp)	
	ISE 534 – Data Analytics Consulting (3, Fa)	**ISE 529, ISE 530**
	ISE 543 - Enterprise Business Intelligence & Systems Analytics (3, Sp)	
	ISE 562 – Decision Analysis (3, FaSp)	

Required Technology Course – Select one – (3 units)

Semester	Course	
	ISE 545 – Technology Development and Implementation (3, Fa)	
	CE 576 – Invention and Technology Development (3,Fa)	
	ISE 585 – Strategic Management of Technology (3, FaSp)	

<u>*SELECT ONE OF THE FOLLOWING TRACKS (9-10 UNITS)*</u>

Management Track – Select Three Courses (9-10 units)

Semester	Course	Prerequisite
	CE 502 – Construction Business (4, FaSp)	
	ISE 506 – Lean Operations (3, FaSp)	
	ISE 527 – Quality Management for Engineers (3, FaSp)	
	ISE 585 – Strategic Management of Technology (3, FaSp)	
	MOR 557 Strategy and Organization Consulting (3, FaSp)	

Analytics Track – Select Three Courses (9-10 units)

Semester	Course	Prerequisite
	DSCI 552 – Machine Learning for Data Science (4, FaSp)	
	ISE 529 – Predictive Analytics (3, FaSp)	
	ISE 530 – Optimization Methods for Analytics (3, FaSp)	
	ISE 533 – Integrative Analysis (3, Sp)	**ISE 529, ISE 530**
	ISE 534 – Data Analytics Consulting (3, Fa)	**ISE 529, ISE 530**
	ISE 543 - Enterprise Business Intelligence & Systems Analytics (3, Sp)	
	ISE 562 – Decision Analysis (3, FaSp)	

Innovation and Technology Commercialization Track – Select Three Courses (9 units)

Semester	Course	Prerequisite
	BAEP 556 – Technology Feasibility (3, Fa)	
	BAEP 557 – Technology Commercialization (3, Sp)	
	ISE 545 – Technology Development and Implementation (3, Fa)	
	CE 576 – Invention and Technology Development (3)	
	ISE 585 – Strategic Management of Technology (3, FaSp)	

Supply Chain and Operations Track – Select Three Courses (9 units)

Semester	Course	Prerequisite
	DSO 581 – Supply Chain Management (3, FaSp)	
	DSO 583 – Operations Consulting (3, Sp)	
	ISE 513 – Inventory Systems (3, Sp)	
	ISE 514 – Advanced Production Planning and Scheduling (3, FaSm)	
	ISE 583 – Enterprise Wide Information Systems (3, FaSp)	

Custom Track – Select Three Courses from Industrial and Systems Engineering or Business (9 units)

Semester	Course	

Elective – Select one – (3 units)

Semester	Course	

Master of Science in Engineering Management

Total 30 units