Term Admitted:				
At least	t twenty one units of	industrial and systems engineerin	g courses related to ope	erations research.
Twenty	one units must be a	t 500 level or above		
				ster's degree at USC. If courses were not used toward
	leted degree, the manental approval, is f		that may be applied tow	vards a 30 unit master's degree, subject to
Required Prerequisite Courses Calculus I, II, III		Where Completed	Course #	<u>Title</u>
Linear Algebra		<del></del>		
Programming Programming			<del></del>	
Probability & Sta				
Engr. Economy				
System Simulation	on			
REQUIRED CO	DURSES			
Semester	Course			Prerequisite
	*ISE 532 – Netwo			ISE 330 or ISE 536
	ISE 536 – Linear Programming and Extensions (3 units, Fa)			MATH 225 or EE 441)
	ISE 538 – Performance Analysis Using Markov Models (3 units, Fa)			
	ISE 580 – Performance Analysis with Simulation (3 units Sp)			Recommended: ISE 220, 325, 435
	ISE 582 – Web Technology for Industrial Engineering or			ISE 382
	ISE 583 – Enterprise Wide Information Systems (3 units, FaSpSm)			
Salact at lanst 2	*Replacement co of the following 10			
Semester	Course			Prerequisite
Semester	CE 645 – Uncertainty Modeling and Stochastic Optimization			110104
	ISE 513 – Inventory Systems (3 units, Sp)			
	ISE 514 – Advanced Production Planning and Scheduling (3 units,FaSp)			
	ISE 520 – Optimization: Theory and Algorithms (3 units, Fa)			MATH 225 or EE 441
	ISE 525 – Design of Experiments (3 units Sp)			ISE 225
	ISE 539 – Stochastic Elements of Simulation (3 units, Sp)			corequisite ISE 538
	ISE 562 – Decision Analysis (3 units, Sp)			
	ISE 563 – Financial Engineering (3units, FaSp)			
	ISE 576 – Industrial Ecology: Technology-Environment Interaction (3 units, Fa)			Fa)
	SAE 541 – Systen	ns Engineering Theory and Practic	ee (3 units, FaSpSm)	
400- or 500-leve	l computar scianca	course approved by faculty adv	risor (3 or 4 units)	
400- or 500-level computer science course, approved by faculty advisor (3 or 4 units)  Semester Course				Approval and date
- Comester	Course			Experoral and date
Advisor Annrov	red Electives (6 unit			
Semester	Course			Approval and date
				•
	1			

Name

ID#\_\_\_

## Master of Science in Operations Research Total 30 units