

Concentration Areas of IE Graduate Courses

COURSE	TITLE	OR	PSL	IMS	IS	Course offering
IEE 505	Information Systems Engineering (3)			X		
IEE 506	Web-Enabled Decision Support Systems			X		Fall (P & OL)
IEE 511	Analysis of Decision Processes (3)	X	X	X	X	
IEE 512	Introduction to Financial Engineering (3)	X	X	X		Fall (P & OL)
IEE 520	Statistical Learning for Data Mining (3)			X	X	Fall (P & OL)
IEE 521	Urban Operations Research	X	X			Spring (P, every two years)
IEE 526	Operations Research in Healthcare	X	X			Fall (P, every two years)
IEE 530	Enterprise Modeling (3)			X		
IEE 533	Scheduling (3)	X	X			
IEE 534	Supply Chain Modeling and Analysis (3)	X	X			Spring (P & OL)
IEE 535	Introduction to International Logistics Systems (3)		X			Fall (P, every two years)
IEE 541	Engineering Administration (3)			X		Fall iCourse
IEE 545	Advanced Simulating Stochastic Systems (3)	X	X			Fall (P & OL)
IEE 552	Strategic Technological Planning (3)			X		
IEE 556	Introduction to Systems Engineering			X		Spring Hybrid & OL
IEE 561	Production Systems (3)		X			Spring (P & OL)
IEE 570	Advanced Quality Control (3)			X	X	Fall (P & OL)
IEE 571	Quality Management (3)				X	Fall (P & OL)
IEE 572	Design Engineering Experiments (3)				X	Fall and Spring (P & OL)
IEE 573	Reliability Engineering (3)				X	Spring (P & OL)
IEE 574	Applied Deterministic Operations research Models (3)	X	X			Fall (P & OL)
IEE 575	Applied Stochastic Operations Research Models (3)	X	X			Spring (P & OL)
IEE 576	Network Optimization and Algorithms	X	X			
IEE 577	Data Science for Systems Decision Analytics			X	X	Spring (P)
IEE 578	Regression Analysis (3)				X	Fall (P & OL)
IEE 579	Time Series Analysis and Forecasting (3)				X	Spring (every two years)

IEE 581	Six Sigma Methodology (3)				X	Fall (P& OL)
IEE 582	Response Surfaces and Process Optimization (3)	X		X	X	
IEE 605	Foundations of Information Systems Engineering (3)			X		Spring (P)
IEE 620	Optimization I (3)	X				Fall (P)
IEE 622	Optimization II (3)	X				Spring (P)
IEE 640	Probability & Stochastic Model (3)	X				Fall (P)
IEE 670	Mathematical Statistics (3)				X	Fall (P)
IEE 672	Advanced Topics in Experimental Design (3)				X	
BMI 501	Intro to Biomedical Informatics				X	
BMI 502	Foundations of BMI Methods I				X	
CSE 520	Computer Architecture II (3)			X		
CSE 534	Advanced Computer Networks (3)			X		
CSE 536	Advanced Operating Systems (3)			X		
CSE 550	Combinatorial Algorithms and Intractability (3)	X		X		
FSE 501	Technology Entrepreneurship			X		
FSE 502	Strategic Enterprise Innovation			X		
STP 526	Theory of Statistical Linear Models (3)				X	
STP 532	Applied Nonparametric Statistics (3)				X	
STP 533	Applied Multivariate Analysis (3)				X	
STP 534	Applied Discrete Data Analysis (3)				X	
STP 540	Computational Statistics				X	
APM 523	Numerical Optimization (3)	X				

OR = Operations Research
PSL = Production Systems and Logistics

IMS = Information Management and Systems
IS = Industrial Statistics