Bachelor's degree in Science (Operations Research)

The plan of study for the Department of Statistics and Operations

Research

Specialization: Operations Research

Degree: Bachelor of Science

Preparatory Year (31 credit hours)				
Course Code	Title	Credit Hours	Pre- requisite(s)	Co-requisite(s)
ENG 140	English Language 1	8		
ENG 150	English Language 2	8		
MATH 140	Introduction to Mathematics	2		
MATH 150	Differential Calculus	3		
CT 140	Computer skills	3		
CI 140	Learning, Thinking and Research Skills	3		
CHS 140	Health and fitness	2		
MC150	Communication skills	2		
Total 31				

University requirements (8 credits hours)
A student chooses 8 credits hours from the Islamic Culture courses

Compulsory Requirements Within the Department (59 credits)				
Course Code	Title	Credit Hours	Pre- requisite(s)	Co-requisite(s)
OPER 100	Introduction to Operations Research	4	MATH 150	STAT 100
OPER 213	Linear Programming	4	OPER 100	MATH 244
OPER 322	Inventory Control	3	OPER 213, MATH 207	
OPER 331	Non-Linear Optimization	4	OPER 213, MATH 207	
OPER 351	Network Analysis	3	OPER 213, CSC 202	
OPER 382	Decision and Game Theory	4	OPER 213	
OPER 435	Numerical Methods in Operations Research	3	OPER 331, OPER 351	
OPER 441	Modeling and Simulation	4	STAT 215, CSC 202	
OPER 472	Stochastic Processes and Queuing Theory	4	OPER 213, STAT 215	
OPER 497	Graduation Project (1)	1	OPER 351	OPER 435 OPER 441 OPER 472
OPER 498	Graduation Project (2)	2	OPER 497	

	Total			
STAT 436	Time Series and Forecasting	3	STAT 332	
STAT 332	Regression Analysis	3	STAT 328, MATH 244	
STAT 328	Statistical Packages	3	STAT 105	
STAT 223	Theory of Statistics (1)	3	STAT 215	
STAT 215	Probability (1)	4	STAT 100, MATH 111	
STAT 105	Statistical Methods	4	STAT 100	
STAT 100	Introduction to Statistics	3	MATH 150	

Compulsory Requirements Outside the Department (17 credits)				
Course Code	Title	Credit Hours	Pre- requisite(s)	Co-requisite(s)
MATH 111	Integral Calculus	4	MATH 150	
MATH 207	Advanced Integral and Differential Calculus	3	MATH 111	
MATH 244	Linear Algebra	3	MATH 111	
CSC 201	Computer Programming	4		
CSC 202	Computer Programming using MATLAB	3	CSC 201	
	Total	17		

Elective Requirements From Within the Department Group A (student selects 12 credit hours from this group)				
Course Code	Title	Credit Hours	Pre- requisite(s)	Co-requisite(s)
OPER 313	Integer Programming	3	OPER 213	
OPER 453	Scheduling and Sequencing	3	OPER 213	
OPER 490	Special Applications in Operations Research	3	OPER 331, OPER 351	
OPER 492	Prices and Revenue Management	3	OPER 331, STAT 215	
STAT 315	Probability (2)	3	STAT 215, MATH 207	
STAT 326	Theory of Statistics (2)	3	STAT 223, MATH 207	STAT 315
STAT 325	Decisions Theory	3	STAT 223	
STAT 333	Nonparametric Statistical Methods	3	STAT 105	
STAT 331	Sampling Techniques	3	STAT 223	
STAT 362	Reliability Theory	3	STAT 223	
STAT 401	Econometrics	3	STAT 332	
STAT 431	Insurance Methods	3	STAT 326	
STAT 434	Linear Models	3	MATH 244	
STAT 437	Design and Analysis of Experiments	3	STAT 328	
STAT 441	Quality Control	3	STAT 326	

Elective Requirements From Outside the Department Group B (student choose 9 credit hours from this group)

Code Title Credit Hours Prequisite(s) requisite(s) MATH 160 Computational Mathematics 2 CT 140 & MATH 111 MATH 225 Introduction to Differential Equations 4 MATH 207 MATH 352 Numerical Analysis 4 MATH 160 & MATH 244 MATH 382 Real Analysis I 4 MATH 207 MGT 101 Principles of Management and Business 3 MGT 101 MGT 102 Human Resources Management 3 MGT 101 MGT 103 Entrepreneurship 3 MGT 101 MGT 104 Principles of Public Administration 3 MGT 101 MGT 319 Management of Small and Medium Size Businesses 3 MGT 101 MGT 371 Operations Management 3 MGT 101 MS 201 Management Information Systems 3 MGT 101 ACCT 201 Principles of Accounting and Financial Reporting 3 ACCT 201 ACCT 201 Principles of Cost Managerial Accounting (2) 3 ACCT 201 ACCT 317 Intermediate Accounting (2) 3	Group b (student choose 5 credit hours from this group)					
MATH 160 Computational Mathematics 2 MATH 111 MATH 225 Introduction to Differential Equations 4 MATH 207 MATH 352 Numerical Analysis 4 MATH 207 MATH 382 Real Analysis I 4 MATH 244 MGT 101 Principles of Management and Business 3 MGT 101 MGT 102 Human Resources Management 3 MGT 101 MGT 103 Entrepreneurship 3 MGT 101 MGT 104 Principles of Public Administration 3 MGT 101 MGT 319 Management of Small and Medium Size Businesses 3 MGT 101 MGT 371 Operations Management 3 MGT 101 MIS 201 Management Information Systems 3 MGT 101 ACCT 201 Principles of Accounting 3 ACCT 201 ACCT 202 Principles of Cost Managerial Accounting 4 3 ACCT 201 ACCT 311 Accounting for Government and Non-Profit Organizations 3 ACCT 201 ACCT 317 Intermediate Accounting (1) 3 ACCT 201		Title		requisite(s)	Co-requisite(s)	
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MATH 352 Numerical analysis 4 MATH 244 MATH 382 Real Analysis I 4 MATH 207 MGT 101 Principles of Management and Business 3 MGT 101 MGT 102 Human Resources Management 3 MGT 101 MGT 103 Entrepreneurship 3 MGT 101 MGT 104 Principles of Public Administration 3 MGT 101 MGT 319 Management of Small and Medium Size Businesses 3 MGT 101 MGT 371 Operations Management 3 MGT 101 MIS 201 Management Information Systems 3 MGT 101 ACCT 201 Principles of Accounting 3 ACT 101 ACCT 201 Principles of Cost Managerial Accounting (2) 3 ACCT 201 ACCT 311 Accounting for Government and Non-Profit Organizations 3 ACCT 201 ACCT 311 Intermediate Accounting (2) 3 ACCT 201 ACCT 317 Intermediate Accounting (2) 3 ACCT 317 ECON 101 Principles of Macroeconomics 3 ECON 102	MATH 225		4	MATH 207		
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