King Saud University
College of Business Administration
Department of Management Information Systems

Bachelor of Science in Business Administration – Major in Management Information Systems (BSBA in MIS)

Course Descriptions and Program Structure

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Program Description

Students of all the departments of CBA, including the Department of MIS, are required to complete 134 credit hours of courses. The courses are classified into the following categories.

Credit Hours for the BSBA in MIS

Program Structure	Required/ Elective	No. of courses	Credit Hours
Institution Requirements	Required	8	24
	Elective	5	11
College Requirements	Required	16	48
	Elective	3	9
Program Requirements	Required	10	30
	Elective	2	6
Capstone Course/Project	-	-	-
Field Training/ Internship	Required	1	6
Residency year	-	-	-
Others	-	-	-
Total			**134**

Study Plan of the BSBA in MIS

Code	Course Name	CHs	Sub-total
1. Institution Requirements			
ENGS100	English Language	6	
ENGS110	English	6	
CT101	IT Skills	3	
EPH101	Fitness & Culture Health	1	
CI101	Academic Skills	3	24
ARAB101	Language Skills	2	
ARAB100	Writing Skills	2	
ENT 101	Entrepreneurship	1	
2. College Requirements			
QUA107	Introduction of Statistics in Business	3	
BUS101	Principles of Management & Business	3	
ECON101	Principles of Microeconomics	3	
QUA 207	Business Statistics	3	
ECON 102	Principles of Macroeconomics	3	
BUS110	Managerial Skills	3	
ACCT201	Principles of Accounting & Reporting	3	36
MIS201	Management Information Systems	3	
FIN200	Principles of Finance	3	
MKT201	Principles of Marketing	3	
ACCT202	Principles of Cost & Managerial Accounting	3	
BUS214	Business Ethics & Social Responsibility	3	
3. Program Requirements			
MIS 211	Business Computer Programming	3	
MIS 214	Introduction to Databases	3	
MIS 215	Information System Analysis & Design (1)	3	
MIS 333	Principles of Information Systems Security	3	42
MIS 350	Decision Support Systems and Expert Systems	3	
MIS 354	Enterprise Resource Planning (ERP)	3	
MIS 366	Web-based Applications	3	
MIS 430	Business Data Communication and Network Management	3	

MIS 437	Electronic Business	3	
MIS 460	Project Management in Information Technology	3	
MKT 403	Electronic Marketing	3	
BUS 371	Operation Management	3	
BUS 411	Strategic Management	3	
QUA 204	Linear Algebra in Business	3	
4. Electives from Program			
MIS 321	Advanced Databases	3	
MIS 323	Information Systems Analysis & Design (2)	3	6
MIS 419	Knowledge Management & Data Mining	3	
MIS 433	Information System Security Policies	3	
MIS 431	Selected Topics in Management Information Systems (1)	3	
MIS 450	E-Healthcare Information Systems	3	

5. Electives from College			
BUS 202	Human Resource Management	3	
MKT 301	Consumer Behaviour	3	
BUS 302	International Business	3	
BUS 303	Entrepreneurship and Innovation	3	9
BUS 372	Supply Chain Management	3	
MKT 410	Strategic Marketing	3	
ECON 421	Feasibility Studies & Project Evaluation	3	

6. Electives from Institution			
IC100	Studies in the prophet biography	2	
IC101	Principles of Islamic Culture	2	
IC102	Family in Islam	2	
IC103	Economic System in Islam	2	
IC104	Islamic Political System	2	
IC105	Human Rights	2	8
IC106	Medical Jurisprudence	2	
IC107	Professional Ethics	2	
IC108	Current Issues	2	
IC109	Development Role of Women	2	
7. Field Training/Internship			

MIS 477	Coop Training in MIS	6	6
8. Free hours			
Free hours		3	3
Total			**134**

Study Plan

- P: Pre-requisite
- C: Co- requisite
- L: Pre-course Level
- NC: None Co-requisite
- G: GPA level
- H: Requisite HRS
- MC: Mandatory Co-requisite
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Group Type: Compulsory 1

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester One	ENGS 100	English Language	6					
	CT 101	IT Skills	3					
	EPH 101	Fitness & Culture Health	1					
	CI 101	Academic Skills	3					
	QUA 107	Introduction to Statistics in Business	3					
		Total	**16**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Two	BUS 101	Principles of Management & Business	3					
	ENT101	Entrepreneurship	1					
	ECON 101	Principles of Microeconomics	3					
	ENGS 110	English	6				ENGS 100 - / P	
	QUA 207	Business Statistics	3				QUA 107 - / P	
		Total	**16**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Three	ARAB 101	Language Skills	2					
	ECON 102	Principles of Macroeconomics	3				ECON101 - / P	
	BUS 110	Managerial Skills	3				BUS 101 - / P	
	ACCT 201	Principles of Accounting & Financial Reporting	3					
	MIS 201	Management Information Systems	3				BUS 101 - / P	
		Total	**14**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Four	ARAB 100	Writing skills	2					
	FIN 200	Principles of Finance	3				ACCT201 - / P	
	MKT 201	Principles of Marketing	3				BUS 101 - / P ECON101 - / P	
	ACCT 202	Principles of Cost & Managerial Accounting	3				ACCT201 - / P	
	BUS 214	Business Ethics & Social Responsibility	3				BUS 101 - / P	
		Total	**14**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Five	QUA 204	Linear Algebra in Business	3					
	MIS 211	Business Computer Programming	3				MIS 201 - / P	
	MIS 214	Introduction to Databases	3				MIS 201 - / P	
		Total	**9**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Six	MIS 215	Information System Analysis & Design (1)	3				MIS 211 - / P MIS 214 - / P	
	MIS 350	Decision Support System & Expert Systems	3				MIS 211 - / P MIS 214 - / P	
	MIS 366	Web-Based Applications	3				MIS 211 - / P MIS 214 - / P	
	BUS 371	Operations Management	3				BUS 101 - / P QUA 207 - / P	
		Total	**12**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Seven	MIS 333	Principle of Information System Security	3				MIS 215 - / P	
	MIS 354	Enterprise Resource Planning (ERP)	3				MIS 215 - / P	
	MKT 403	Electronic Marketing	3				MKT 201 - / P	
		Total	**9**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Eight	BUS 411	Strategic Management	3				BUS 101 - / P FIN 200 - / P MKT 201 - / P	
	MIS 430	Business Data Communication & Network Management	3				MIS 350 - / P	
	MIS 437	Electronic Business	3				MIS 215 - / P MIS 350 - / P	
	MIS 460	Project Management in Information Technology	3				MIS 215 - / P MIS 333 - / P	
		Total	**12**					

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Semester Nine	MIS 477	Co-Op Training	6				MIS 460 - / P	
		Total	**6**					

Group Type: Elective 1 (8)

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Elective 1(8)	IC 100	Studies in the prophet biography	2				IC 101- / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	
	QURN 100	Quran Kareem	2				IC 100- / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC	
	IC 101	Principles of Islamic Culture	2				IC 100- / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	
	IC 102	Family in Islam	2				IC 100- / NC IC 101 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	

	IC 103	Economic System in Islam	2				IC 100- / NC IC 101 - / NC IC 102 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	
	IC 104	Islamic Political System	2				IC 100- / NC IC 101 - / NC IC 102 - / NC IC 103 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	
	IC 105	Human Rights	2				IC 100- / NC IC 101- / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	
	IC 106	Medical Jurisprudence	2				IC 100- / NC IC 101- / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 107 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	

IC 107	Professional Ethics	2			IC 100- / NC IC 101- / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 108 - / NC IC 109 - / NC QURN 100 - / NC	
IC 108	Current Issues	2			IC 100- / NC IC 101- / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 109 - / NC QURN 100 - / NC	
IC 109	Development Role of Women	2			IC 100- / NC IC 101- / NC IC 102 - / NC IC 103 - / NC IC 104 - / NC IC 105 - / NC IC 106 - / NC IC 107 - / NC IC 108 - / NC QURN 100 - / NC	
	Total	**22**				

Group Type: Elective 1 (9)

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Elective 1 (9)	BUS 202	Human Resources Management	3				BUS 101 - / P	
	MKT 301	Consumer Behaviour	3				MKT 201 - / P	
	BUS 302	International Business	3				BUS 101 - / P MKT 201 - / P	
	BUS 303	Entrepreneurship and Innovation	3				BUS 101 - / P	
	BUS 372	Supply Chain Management	3				BUS 101 - / P QUA 207 - / P	
	MKT 410	Strategic Marketing	3				MKT 201 - / P	
	ECON 421	Feasibility Studies & Project Evaluation	3				ECON 102 - /P FIN 200 - / P MKT 201 - / P	
		Total	**21**					

Group Type: Elective 2 (6)

	Course Code	Course Name	H	G	L	H	Requisite	Yrl
Elective 2 (6)	MIS 321	Advanced Databases	3				MIS 215 - / P	
	MIS 323	Information System Analysis & Design (2)	3				MIS 215 - / P	
	MIS 419	Knowledge Management & Data Mining	3				MIS 350 - / P	
	MIS 431	Selected Topics in Management Information Systems (1)	3				MIS 215 - / P MIS 350 - / P MIS 366 - / P	
	MIS 433	Information Security Policies	3				MIS 333 - / P	
	MIS 450	E-Healthcare Information Systems	3				MIS 350- / P	
		Total	**18**					

		Free Hours	**3**

Program Course Description

Code & No : MIS 201	Course : Management Information Systems
Credits : 3 (3+2+0)	Prerequisite :

This course introduces the concepts of Information Systems (IS), the use of IS in business, information needs of different levels of management, business intelligence tools and the role of databases in business intelligence. It also discusses IT infrastructure and e-commerce. This course should increase students' knowledge about the different information systems that they will need to accomplish their business tasks in all departments. In addition, they should be aware of the importance of IS in improving the decision-making process.

Code & No : MIS 211	Course : Business Computer Programming
Credits : 3 (3+2+0)	Prerequisite :

This course offers students a comprehensive introduction to the Python programming language. Students will learn the basic principles of programming logic, as well as the fundamental syntax of Python. They will also be introduced to the PyCharm IDE, which is a popular development environment for Python. Topics scope: Introduction to Computers and Programming, Introduction of PyCharm, Input and Output, Decision Structures and Boolean Logic, Repetition Structures, Functions, Lists and Strings, Files and Dictionaries, Classes and Object-Oriented Programming, Recursion.

Code & No : MIS 214	Course : Introduction to Databases
Credits : 3 (3+2+0)	Prerequisite : MIS 201

The course introduces students to basic understanding along with practical experience of database systems and their main roles in organizations. Students will be trained to conduct data analysis, database modeling, and database implementation using a database management system. The course will focus on relational databases, conceptual data models, e.g., Entity Relationship Models (ERM), database query and manipulation languages, e.g., Structured Query Language (SQL), normalization and its main role in database design, and security aspects in database systems.

Code & No : MIS 215	Course: Information System Analysis and Design (1)
Credits : 3 (3+2+0)	Prerequisite: MIS 214

This course offers a practical, streamlined, and updated approach to information systems development. It emphasizes the role of the systems analyst in a dynamic, business-related environment. In this course, real-world examples emphasize critical thinking and IT skills in a dynamic, business-related environment. Upon completion, students should be able to translate business requirements into information systems that support a company's short- and long-term objectives.

Code & No : MIS 333	Course: Principles of Information Systems Security
Credits : 3 (3+2+0)	Prerequisite : MIS 215

This course presents information security's managerial and technical aspects to prepare future business decision-makers and addresses knowledge areas of the Certified Information Systems Security Professional certification. It provides an overview of the issues related to information security, including assessing the levels of confidentiality, integrity, and availability needed for different types of information, the nature of threats, and the three tiers of information

protection, detection, and correction and recovery. The course addresses various security techniques related to the physical environment, IT systems, data encryption, and computer forensics.

Code & No : MIS 350	Course: Decision Support Systems and Expert Systems
Credits : 3 (3+2+0)	Prerequisite : MIS 214

This course covers Decision Support Systems (DSS) and Expert Systems (ES) and their applications in a variety of disciplines. DSS are computer-aided decision-making tools that help decision-makers analyze complicated problems and make informed decisions. ES, on the other hand, are computer programs that provide intelligent recommendations and solutions by simulating human expertise in specialized topics. The course begins by introducing the fundamental concepts and principles underlying DSS, ES, and Business Intelligence (BI). Students will explore the characteristics, components, and architecture of DSS, including data management, model-based decision-making, and user interfaces. Students will explore real-world examples and case studies throughout the course to understand how DSS and BI are employed in various industries and organizational situations. They will learn about the systems' design and development procedures, such as knowledge collection, knowledge engineering, and system integration.

Code & No : MIS 354	Course : Enterprise Resource Planning
Credits : 3 (3+2+0)	Prerequisite : MIS 215

The purpose of this course is to provide the students with a clear understanding of the fundamental concepts of Enterprise Resource Planning (ERP). The problems of unintegrated systems in modern businesses are presented and the main rules of ERP in solving these problems and running enterprises are discussed. The ERP strategic, tactical, and operational influences on businesses are emphasized.

Code & No : MIS 366	Course : Web based Applications
Credits : 3 (3+2+0)	Prerequisite : MIS 214, MIS 211

This course introduces the principles of designing and developing web applications for e-commerce using ASP.NET and C#. Students will learn the fundamental concepts of web development, such as HTML5, CSS, and XML, as well as the basics of relational databases using SQL Server Express. They will also gain experience working with real-world projects using ASP.NET. By the end of this course, students will be able to design and develop dynamic web-based applications for e-commerce, including features such as product management, shopping carts, and checkout.

Code & No : MIS 419	Course : Knowledge Management & Data Mining
Credits : 3 (3+2+0)	Prerequisite : MIS 350

The course aims to introduce principles and concepts of Knowledge Management (KM) along with the challenges, solutions, technologies and application systems of KM. This course approaches KM from several perspectives: it covers electrical engineering, artificial intelligence, information systems, and business. Furthermore, the course aims to introduce Data Mining (DM) techniques. DM is about extracting useful patterns from data aiming to find actionable knowledge in the raw of information. The rapid growth of data storage and the computing power available to analyse the data have created valuable opportunities for data mining in business.

Code & No : MIS 430	Course : Business Data Communication and Network Management
Credits : 3 (3+2+0)	Prerequisite : MIS 350, MIS 333

This course emphasizes to enhance students' abilities to use and mange computer networks in MIS. Topics covered include introduction and definition of computer networks and communications concept, types of computer networks, features of analog and digital data and signals, types of network noise that cause transmission errors, Internet protocols and processes, WAN service options for small businesses and enterprises, Network design and management, and business principles in network management.

Code & No: MIS 431	Course: Selected Topics in Management Information Systems (1)
Credits : 3 (3+2+0)	Prerequisite : MIS 350, MIS 333

This course is designed to introduce several recent topics in MIS domain. Examples of potential topics include but are not limited to: Cloud Computing, Internet of Things, Block Chain, Business Process Management (BPM), Agent Technology and Applications, Human Computer Interaction, Computer-Based Learning, and Digital Transformation. Therefore, the course may go into a topic covered in another MIS course in greater depth, or it may focus on a topic not covered by existing courses. The department council must endorse the topics covered in this course, which may be taught by one or two instructors. Hence, a variety of topics may be offered in different semesters.

Code & No : MIS 437	Course : Electronic Business
Credits : 3 (3+2+0)	Prerequisite : MIS 430, MIS 211

The main purpose of the course is to provide undergraduate students an overview of e-business. Especially, to introduce them with the concept of e-business infrastructure, e-business strategy, e-procurement, e-marketing, customer relationship management and new trends in e-business solutions such as use of social media etc.

Code & No : MIS 460	Course: Information Systems Project Management
Credits : 3 (3+2+0)	Prerequisite : MIS 215, MIS 333

The course intends to introduce concepts, principles and methods of project management in Information Technology (IT). Topics covered include: the features and benefits of IT projects, the main stages in project management, management and responsibility, time and resource planning, scheduling and control, quality and cost, risk management in project management, the role of project manager and the evolution of project management, develop and document the request for proposals, evaluation and selection, the documentation of the projects, tools used in project management, project management standards, cases studies in the management of IT projects.

Code & No : MIS 450	Course : Healthcare Information Systems
Credits 3 (3+2+0)	Prerequisite : MIS 350

Provide students with an understanding of how information systems and technology can be used to help decision makers and health care providers in the delivery of health services. Students will be exposed to various applications used in hospitals and health organizations and how such applications can be evaluated and/or improved.
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Code & No : MIS 477	Course : Coop Training in MIS
Credits : 6 (6+0+0)	Prerequisite : MIS 460

This course allows an upper-class MIS student one semester of appropriate work experience in a related industry. Students are required to independently implement and manage a project of Information Systems, under faculty supervision, in industry. Proposals for an independent study must be approved by the sponsoring faculty from the department and the MIS Co-op course committee. This is a capstone course requiring students to incorporate skills and knowledge from other courses by conducting a project into an area of professional interest or concern in management information systems. The conclusions drawn form the foundation for recommendations for innovation and enhancement in the Co-op student's industry. At the completion of each co-op experience, each co-op student has to submit their project along with the project documentation and make a presentation in front of a committee of the department.