



**Study Plan**  
**MASTER OF SCIENCE IN INFORMATION SYSTEMS (MIS)**

**UNDER THE**  
**COLLEGE OF COMPUTER & INFORMATION SYSTEMS**  
**AL-YAMAMAH UNIVERSITY**

May 2016

The Al Yamamah University Masters in Information Systems is a four-semester program consisting of 42 hours with a combination of coursework and a Thesis or Capstone option. Coursework includes Core requirements and Electives.

<b>FOUNDATIONS COURSES</b>			
<i>Foundations courses must be completed prior to start of first semester of required coursework</i>			
<b>Course Type</b>	<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
Foundations	MIS 300	Database Management	2
Foundations	MIS 305	Computer Programming	2
Foundations	MIS 303	Project Management	2
Foundations	MIS 306	Introduction to Information Systems	2

### Program Structure

The program can be completed as follows:

<b>Total Program Credits: 42 credit hours</b>	
Core Courses	15 credit hours
Thesis or Capstone Project	6 credit hours
Electives	21 credit hours
<b>Expected Program Completion</b>	
Full-time	2 years (4 semesters)

### Program Course Load

Semester 1: 3 CORE

Semester 2: 2 CORE + 2 ELECTIVES

Semester 3: 3 ELECTIVES + CAPSTONE or THESIS

Semester 4: 2 ELECTIVES + CAPSTONE or THESIS

### List of Core Courses

1. Introduction to Database Systems
2. Management of Software Development
3. Principles and Practices of Communications & Networks
4. Database Programming for the World Wide Web
5. Information Systems Security

### VII. Sample Study Plan

Selection of elective courses should be made in consultation with the advisor and based on career plans.

<b>SEMESTER 1: 3 CORE COURSES</b>			
<b>Course Type</b>	<b>Course Numbers</b>	<b>Course Title</b>	<b>Hours</b>
Core	MIS 501	Introduction to Database Systems	3
Core	MIS 503	Management of Software Development	3
Core	MIS 505	Principles and Practices of Communications & Networks	3
<b>Semester 2: CORE + ELECTIVES</b>			
<b>Course Type</b>	<b>Course Number</b>	<b>Course Title</b>	<b>Hours</b>
Core	MIS 507	Database Programming for the World Wide Web	3
Core	MIS 509	Information Systems Security	3
Elective			3
Elective			3

Semester 3: ELECTIVES + CAPSTONE or THESIS			
Course Type	Course Number	Course Title	Hours
Elective			3
Elective			3
Elective			3
Capstone/ Thesis		CAPSTONE PART 1 or THESIS PART 1	3
Semester 4: ELECTIVES + CAPSTONE or THESIS			
Course Type	Course Number	Course Title	Hours
Elective			3
Elective			3
Capstone/ Thesis		CAPSTONE PART 2 or THESIS PART 2 or MIS 506	3
<b>TOTAL CREDIT HOURS: 42</b>			

### VIII. Program Planning and Administration

Students will be admitted as one cohort to minimize the number of times per year, which a course is offered. Foundation Courses are suggested to be offered in the summer and completed prior to the first semester of required coursework.

#### COURSE LIST

##### CORE COURSES

MIS 501 Introduction to Database Systems (3 credits)
MIS 503 Management of Software Development (3 credits)
MIS 505 Principles and Practices of Communications (3 credits)
MIS 507 Database Programming for the World Wide Web (3 credits)
MIS 509 Information Systems Security (3 credits)

### **CAPSTONE COURSES**

MIS 502 Capstone Part 1 (3 credits)
MIS 503 Capstone Part 1(3 Credits)

### **THESIS WORK**

MIS 511 Thesis Phase 1(3 Credits)
MIS 513 Thesis Phase 2(3 Credits)

### **ELECTIVES**

MIS 531 Data Mining (3 Credits)
MIS 533 Database Security (3 Credits)
MIS 535 Data Mining with Linear Models (3 credits)
MIS 537 Data Warehousing (3 Credits)
MIS 539 Human Computer Interaction (3 Credits)
MIS 541 Information Resources Management (3 Credits)
MIS 543 Management of Technology and Innovation (3 Credits)
MIS 545 Technology Entrepreneurship (3 Credits)
MIS 547 Evaluation of Computer Systems (3 Credits)
MIS 549 Web Mining (3 Credits)
MIS 556 Artificial Intelligence (3 Credits)
MIS 557 Emerging Technologies (3 Credits)
MIS 561 Special Topics in Big Data (3 Credits)
MIS 563 Special Topics in Analytics (3 Credits)
MIS 564 System Analysis and Design (3 Credits)