



جامعة عجمان  
AJMAN UNIVERSITY

**College of Engineering and Information Technology**

**Department of Information Technology**

**Information Systems Program**

### (a) General Program Structure

The Bachelor of Science degree in Information Systems with its two concentrations requires the completion of 123 Cr. Hrs. distributed according to the following plan for the two concentrations:

Type of Courses	Credit/hour
1. University General Education Courses	
(a) University Compulsory Courses	24
(b) University Elective Courses	6
2. Information Systems Program Common Compulsory Core Courses	
(a) General Courses	9
(b) Information Systems Core Courses	66
(c) Internship	3
3. Information Systems Program Concentration Courses	
4. Information Systems Program Elective Courses	
<b>Total Credit Hours</b>	<b>123</b>

### (b) Program Courses

#### University General Education Courses

##### University Required Courses (24 Cr. Hrs.)

Course No.	Course Title	Th	Lab	Tut.	Cr. Hrs	Prerequisite
ISL 114 or ISL 112	Islamic Culture Islamic Culture (non-Arabs)	3	0	0	3	-
ARB 113 or ARB 116	Arabic Written Expression Arabic as a Foreign Language	3	0	0	3	-
ENG 104	Advanced English Writing	3	0	0	3	-
EMS 112	Emiratis Studies	3	0	0	3	-
INN 311	Innovation & Entrepreneurship	2	2	0	3	60 Cr. Hrs
LED 111	Leadership and Team Building	3	0	0	3	-
STA 114	General Statistics	2	2	0	3	-
INF212	Fundamentals of Information Systems	3	0	0	3	-

##### University Elective Courses (6 Cr. Hrs.)

Course No.	Course Title	Th.	Lab.	Tut.	Cr. Hrs.	Prerequisite
1. Humanities / Arts (3 Credit Hours)						
ART 111	Introduction to Arts	3	0	0	3	-
ART 112	Introduction to Aesthetics	3	0	0	3	-
ART 113	Introduction to Performing Arts	3	0	0	3	-

FRE 212	Francophone world: Language and Culture	3	0	0	3	-
ISH 211	Islamic Civilization	3	0	0	3	-
LAW106	Human Rights	3	0	0	3	-
WLT 111	World Literature	3	0	0	3	-
2. Natural Sciences (3 Credit Hours)						
AST 211	Astronomy	3	0	0	3	-
BIO 111	General Biology	3	0	0	3	-
CHM 111	General Chemistry	3	0	0	3	-
PHY 111	Physics	3	0	0	3	-

## Information Systems Program Common Compulsory Courses

### Program General Courses (9 Cr. Hrs.)

Course No.	Course Title	Th.	Lab.	Tut.	Cr. Hrs.	Prerequisite
ACC 200	Principles of Accounting I	3	0	0	3	-
MGT 200	Introduction to Management	3	0	0	3	-
MKT 200	Principles of Marketing	3	0	0	3	MGT 200

### Information Systems Program Core Courses & Internship (69 Cr. Hrs.)

Course No.	Course Title	Th.	Lab.	Tut.	Cr. Hrs.	Prerequisite
DAT100	Introduction to Data Analytics	2	2	0	3	INT100
INS 305	Systems Analysis and Design	2	2	0	3	INT 201
INS 308	Enterprise Systems	2	2	0	3	INT 302
INS 402	Business Intelligence and Data Warehousing	2	2	0	3	INT 323
INS 403	IS Audit and Control	3	0	0	3	INT 303
INS 404	Information Systems Strategy and Acquisition	3	0	0	3	INT307
INS 405	Information Systems Project	1	4	0	3	90 Cr. Hrs
INS 406	IT Resource Management	3	0	0	3	INS 305
INS 408	Information Systems Internship	16 weeks-Sector normal hours min 30 per week			3	90 Cr. Hrs
INS415	E-Health and Telemedicine	2	2	0	3	INT 302, INT206
INT 100	Introductory Programming	2	2	2	3	-
INT 201	Object Oriented Programming	2	2	2	3	INT100
INT 205	Fundamentals of Data Communications and Networking	2	2	0	3	INT 201
INT 206	Fundamentals of Web Systems	2	2	0	3	INT 201
INT 301	Operating Systems	2	2	0	3	INT 201
INT 302	Database Management Systems	2	2	0	3	INT 201
INT 303	Fundamentals of Information Security	3	0	0	3	INT 205
INT 306	Computer Ethics and Professional Practices	3	0	0	3	INT 303
INT 307	Information Technology Project Management	3	0	0	3	INS 305
INT 323	Big Data Analytics & Technologies	2	2	0	3	INT 302
INT 430	Artificial Intelligence	2	2	0	3	INT 302
INT101	Calculus for Information Technology	3	0	2	3	-
INT202	Discrete Mathematics	3	0	2	3	INT101

### **Information Systems Program Concentration Specific Compulsory Courses**

Each concentration is composed of nine credit hours of compulsory courses as described below.

#### **Project Management Concentration Compulsory Courses (9 Cr. Hrs.)**

Course No.	Course Title	Th.	Lab.	Tut.	Cr. Hrs.	Prerequisite
INS 411	IT Services and Operations Management	3	0	0	3	INS 305
INS 412	Project Planning, Scheduling and Cost Control	2	2	0	3	INT 307
INS 413	Project Quality and Risk Management	2	2	0	3	INT 307

#### **E-Business Management Concentration Compulsory Courses (9 Cr. Hrs.)**

Course No.	Course Title	Th.	Lab.	Tut.	Cr. Hrs.	Prerequisite
INS 422	E-Marketing	3	0	0	3	MKT 200
INT 322	Web Technologies	2	2	0	3	INT 206
INT 424	E-Commerce	2	2	0	3	INT 206

#### **Information Systems Program Elective Courses (6 Cr. Hrs.)**

Course No.	Course Title	Th.	Lab.	Tut.	Cr. Hrs.	Prerequisite
INS 407	Selected Topics in Information Systems	3	0	0	3	INS 307
INS 307	Business Process Management	3	0	0	3	INS 305
INT 309	Cloud Computing	2	2	0	3	INT 303
INT 313	User Interface Design	3	0	0	3	INS 305
INT 423	Advanced Database Design and Implementation	2	2	0	3	INT 302
INT 429	Mobile Applications	2	2	0	3	INT 301 INT 302

In addition, students registered in a particular concentration can choose one or more elective courses from other concentration of the Information Systems program provided that the corresponding prerequisites of these courses are met.