

Information Systems Program

Offered Courses

• University Requirements

o Mandatory University Courses

		Num				
Code	Course	Credit Hours	Lecture	Practical	Ex.	Co- requirement
HUM110	English language I	2	2	-	-	-
HUM113	Report Writing	2	2	-	-	-
STU130	Selected Uni. Topic (1)	2	2	-	-	-
STU140	Selected Uni. Topic (2)	2	2	-	-	-
STU150	Selected Uni. Topic (3)	2	2	-	-	-
	Total	10				

o Mandatory University Courses not added to the GPA

		Nui	nber of H			
		Credit	Lecture	Practical	Ex.	Co-
Code	Course	Hours				requirement
	Human Rights and					
HUM119	Combating	2	2	-	-	-
	Corruption					

o Selective University Courses

		N	umber of	k		
Code	Course	Credit Hours	Lecture	Practical	Ex	Co- requirement
HUM112	English language II	2	2	-	1	HUM110 English Language I
HUM118	Communication and Negotiation skills	2	2	-	-	-
HUM216	Professional Ethics and Legal Aspects	2	2	-	1	-
HUM114	Arab & Islamic Civilization	2	2	-	-	-
HUM115	Recent Egypt History	2	2	-	-	-
HUM116	Geography of Egypt	2	2	-	1	-
HUM117	Introduction to the History of Civilizations	2	2	-	1	-
HUM201	Music Appreciation	2	2	-	1	-



	Trends in					
HUM202	Contemporary Arts	2	2	-	-	-
HUM203	Literary Appreciation	2	2	-	-	-
HUM204	Psychology	2	2	-	-	-
HUM215	First aid skills	2	2	-	-	-
	Introduction to					
HUM220	Accounting	2	2	-	-	-
	Business					
HUM222	Administration	2	2	-	-	-

• Faculty Requirements

O Mathematics and Basic Sciences

		Numbe	er of Hou	rs / Week		
		Credit	Lecture	Practical	Ex	Co-
Code	Course	Hours			•	requirement
BSC121	Physics I	3	2	1	1	-
						BSC121.
BSC126	Physics II	3	2	1	1	Physics I
BSC122	Calculus I	3	2	-	2	
						BSC121.
BSC124	Electronics	4	2	2	2	Physics I
BSC125	Calculus II	3	2		2	BSC122.
BSC123	Calculus II	3	2	-	2	Calculus I
BSC221	Discrete Mathematics	3	2	-	2	
BSC225	Linear Algebra	3	2	-	2	
BSC123	Probability & Statistics	3	2	-	2	
Total		25	-			

o Basic Computing Courses

		Number	of Hours		Co-	
		Credit	Lecture	Practical	Tut.	requirement
Code	Course	Hours				
	Introduction to					
CIS160	Computer Sciences	3	2	2	-	-
	Structured					CIS160.Introduc
CIS150	Programming	3	2	2	-	tion to Computer
						Sciences
						CIS150. Structured
CIS270	Data Structures	3	2	2	-	Programming
CIS230	Operations Research	3	2	2	-	_
C15250						
	Object-Oriented					CIS150.
CIS250	Programming	3	2	2	-	Structured
C13230						Programming
CIS260	Logic Design	3	2	2	-	BSC121. Physics I



CIS280	Database Management Systems	3	2	2	-	CIS150. Structured Programming
CIS290	System Analysis & Design	3	2	-	2	CIS280. Database Management Systems
CIS240	Statistical Analysis	3	2	ı	2	SC123. Probability & Statistics
CIS340	Analysis & Design of Algorithms	3	2	2	-	CIS150. Structured Programming
CIS243	Artificial Intelligence	3	2	2	-	CIS150. Structured Programming
CIS220	Computer Organization & Architecture	3	2	2	-	CIS260. Logic Design
CIS353	Operating Systems	3	2	2	-	CIS220. Computer Organization &Architecture
CIS380	Software Engineering	3	2	2	-	CIS150. Structured Programming
CIS365	Computer Networks	3	2	2	-	CIS160. Introduction to Computer Sciences
	Total	45				

• Program Requirements

o Mandatory Courses

Code	Course	Credit Hours	Lecture	Practical	Tut.	Co-Requirement
INF311	Data Mining	3	2	2	-	CIS280. Database Management Systems
INF312	Statistical Inference	3	2	2	-	BSC123. Probability and Statistics
INF321	Data Analytics	3	2	2	-	INF312. Statistical Inference



INF322	Digital Multimedia	3	2	2	-	CIS150. Structured
						Programming
						CIS365.
INF323	Data Security	3	2	2	-	Computer
	·					Networks
						NF312 Statistical
INF411	Data Science I	3	2	2	-	Inference
						IS365. Computer
INF412	Cloud Computing	3	2	2	-	Networks
	Geographic					CIS280. Database
INF413	Information	3	2	2	-	Management
	Systems					Systems
						CIS150.
INF421	Mobile Computing	3	2	2	-	Structured
						Programming,
						CIS365.
						Computer
						networks
						INF312.
INF422	Social Media	3	2	2	-	Statistical
	Analytics					Inference
						CIS365.
INF423	Cyber Security	3	2	2	-	Computer
						Networks
STI310	Selected Topic 1	3	2	2	-	
STI320	Selected Topic 2	3	2	2	-	
STI330	Selected Topic 3	3	2	-	-	
STI340	Selected Topic 4	3	2	-	-	
STI350	Selected Topic 5	3	2	-	-	
Total		48				

o Elective Courses

Codo	Comme	Nu	mber of l	ek	Co Dominoment	
Code	Course	Credit Hours	Lecture	Practical	Tut.	Co-Requirement
						CIS280.
						Database
INF414	Graph Database	3	2	2	-	Management
						Systems
						CIS380.
INF415	Software Design	3	2	2	-	Software
	Patterns					Engineering
	Human-Computer					
INF416	Interaction	3	2	2	-	



					INF411. Data
Data Sajanaa II	2	2	2		
	3			_	Science I
					INF321. Data
Management	3	2	2	-	Analytics
					CIS380.
Software Quality	3	2	2	-	Software
Assurance					Engineering
Information					INF321. Data
Visualization	3	2	2	-	Analytics
					CIS150.
Health Informatics	3	2	2	-	Structured
					Programming
Game Design					SCO311.
and	3	2	2	-	Computer Graphics
Implementation					
High Performance					CIS353.
Computing	3	2	2	-	Operating Systems
Internet of things					CIS365.
(IoT)	3	2	2	-	Computer Networks
Computer Graphics					BSC225.
					Linear Algebra,
					CIS150.
	3	2	2	-	Structured
					Programming
	Assurance Information Visualization Health Informatics Game Design and Implementation High Performance Computing Internet of things (IoT)	Data Curation & Management 3 Software Quality 3 Assurance Information Visualization 3 Health Informatics 3 Game Design and 3 Implementation High Performance Computing 3 Internet of things (IoT) 3 Computer Graphics	Data Curation & Management 3 2 Software Quality 3 2 Assurance Information Visualization 3 2 Health Informatics 3 2 Game Design and 3 2 Implementation High Performance Computing 3 2 Internet of things (IoT) 3 2 Computer Graphics	Data Curation & Management 3 2 2 Software Quality 3 2 2 Assurance Information Visualization 3 2 2 Health Informatics 3 2 2 Game Design and 3 2 2 Implementation High Performance Computing 3 2 2 Internet of things (IoT) 3 2 2 Computer Graphics	Data Curation & Management 3 2 2 - Software Quality 3 2 2 - Assurance Information Visualization 3 2 2 - Health Informatics 3 2 2 - Game Design and 3 2 2 2 - Implementation High Performance Computing 3 2 2 - Internet of things (IoT) 3 2 2 - Computer Graphics

• Graduation Project

		Nui	nber of H	ek		
Code	~	Credit Hours	Lecture	Practical	Tut.	Co- requirement
PRO400	Project	6	-	10	2	-