

Computer Information Systems Program

New Study Plan

2023/2024

C. Curriculum

1. Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	6	12	7.32%
	Elective	-	-	-
College Requirements	Required	14	44	26.22%
	Elective	1	3	1.83%
Program Requirements	Required	25	85	51.83%
	Elective	4	12	7.32%
Capstone Course/Project		2	6	3.65%
Field Training/ Internship		1	3	1.83%
Residency year		-	-	-
Others		-	-	-
Total		53	165	

* Add a separated table for each track (if any).

2. Program Courses

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours (L,B,T)	Type of requirements (Institution, College, or Program)
Level 1	ENGL1001	English Language 1	Required	None	0	College
	MATH1006	Calculus1	Required	None	4 (3,0,2)	College
	ISLM1003	The Holy Quran	Required	None	2	Institution
	CS1001	أساسيات التحول الرقمي	Required	None	2	Institution
	IS1001	Principles of Management	Required	None	3 (3,0,0)	Program
Level 2	ENGL1002	English Language 2	Required	ENGL1001	3	College
	CS1002	Introduction to Computing and Algorithms	Required	None	4 (3,2,0)	College
	IS1002	Foundations of Information Systems	Required	None	3 (3,0,0)	Program
	ISLM1001	Islamic Education 1	Required	None	2	Institution
	ARAB1001	Linguistic Skills	Required	None	2	Institution

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours (L,B,T)	Type of requirements (Institution, College, or Program)
Level 3	ENGL1003	English Language 3	Required	ENGL1002	3	College
	CS1004	Statistics	Required	None	3	College
	CS1005	Programming 1	Required	CS1002	4 (3,2,0)	College
	ISLM1002	Islamic Education 2	Required	None	2	Institution
	HIST1001	تاريخ المملكة العربية السعودية	Required	None	2	Institution
Level 4	CS1251	Programming 2	Required	CS1005	4 (3,2,0)	College
	CS1252	Probability	Required	CS1004	3	College
	CS1003	Discrete Structure	Required	None	3	College
	IS1003	Systems Analysis and Design 1	Required	None	4 (4,0,0)	Program
	IT1255	Technical Writing	Required	ENGL1003	3	College
Level 5	IS1251	Computer Networks	Required	None	4 (4,0,0)	Program
	IS1004	Database 1	Required	None	4 (3,2,0)	Program
	IS1252	Systems Analysis and Design 2	Required	IS1003	4 (4,0,0)	Program
	CS1256	Data Structures	Required	CS1251	4 (3,2,0)	College
Level 6	XXXXX	Faculty Elective	Elective	None	3	College
	IS1253	Web Application Development 1	Required	None	4 (3,2,0)	Program
	IS1254	Database 2	Required	IS1004	3 (2,2,0)	Program
	IS1255	User Interface Design	Required	None	4 (3,2,0)	Program
Level 7	IS1502	Enterprise Resource Planning (ERP)	Required	IS1004	4 (3,2,0)	Program
	IS1503	Data and Information Management	Required	IS1004	4 (4,0,0)	Program
	IS1504	IS Project Management	Required	IS1252	3 (3,0,0)	Program
	IS1505	Web Application Development 2	Required	IS1253	4 (3,2,0)	Program
Level 8	IS1506	Accounting for CIS	Required	None	3 (3,0,0)	Program
	IS1507	IT Infrastructure	Required	IS1002	3 (3,0,0)	Program
	IS1508	Operating Systems	Required	CS1256	3 (2,2,0)	Program
	IS1509	Electronic Business	Required	IS1502	4 (4,0,0)	Program

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours (L,B,T)	Type of requirements (Institution, College, or Program)
Level 9	IS1510	Digital Innovation and Emerging Technologies	Required	None	3 (3,0,0)	Program
	IS1511	Field Training	Required	85 CH	3 (0,25,0)	Program
	IS1512	Information Systems Security	Required	IS1002	3 (3,0,0)	Program
	IS1515	Decision Support Systems	Required	IS1004	3 (3,0,0)	Program
	IS1501	Ethics in Computing	Required	None	3 (3,0,0)	College
Level 10	CS1752	Research Methods	Required	None	3 (3,0,0)	College
	IS1751	Business Process Management	Required	IS1252	3 (3,0,0)	Program
	IS1752	Database Administration	Required	IS1254	3 (3,0,0)	Program
	XXXXX	Elective Course 1 (Group A)	Elective	-	3	Program
Level 11	IS1753	Senior Project for CIS 1	Required	IS1252 and 100 CH	3 (3,0,0)	Program
	IS1754	Data Science Fundamentals	Required	IS1503	3 (3,0,0)	Program
	IS1755	IS Strategy and Management	Required	IS1002	3 (3,0,0)	Program
	XXXXX	Elective Course 2 (Group B)	Elective	-	3	Program
Level 12	IS1756	Senior Project for CIS 2	Required	IS1753	3	Program
	IS1757	Seminar	Required	None	3	Program
	XXXXX	Elective Course 3 (Group C)	Elective		3	Program
	XXXXX	Elective Course 4 (Group D)	Elective	-	3	Program
College Elective Courses	CS1513	Unix OS Environment	Elective	None	3 (3,0,0)	College
	CS1514	Advanced Programming and Design Patterns	Elective	CS1251	3 (2,2,0)	College
	IS1513	Digital Marketing	Elective	None	3 (3,0,0)	College
	IS1514	Digital Entrepreneurship	Elective	None	3 (3,0,0)	College

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours (L,B,T)	Type of requirements (Institution, College, or Program)
	IT1513	Software Testing	Elective	CS1251	3 (2,2,0)	College
	IT1514	Blockchain	Elective	None	3 (3,0,0)	College
Program Elective Courses Group A	IS1758	Enterprise systems	Elective	IS1502	3 (3,0,0)	Program
	IS1759	Business Intelligence	Elective	IS1503	3 (3,0,0)	Program
	IS1760	Cloud Business Applications	Elective	IS1507	3 (3,0,0)	Program
Program Elective Courses Group B	IS1761	Systems Integration	Elective	IS1503 Or IS1502	3 (3,0,0)	Program
	IS1762	Introduction to Data Mining	Elective	IS1004	3 (3,0,0)	Program
	IS1763	Geographic Information Systems	Elective	IS1002	3 (3,0,0)	Program
Program Elective Courses Group C	IS1764	E-commerce	Elective	IS1509	3 (3,0,0)	Program
	IS1765	Data Warehouse	Elective	IS1503	3 (3,0,0)	Program
	IS1766	Software Quality Assurance	Elective	IS1252	3 (3,0,0)	Program
Program Elective Courses Group D	IS1767	Enterprise Architecture	Elective	IS1504	3 (3,0,0)	Program
	IS1768	Data Visualization	Elective	IS1004	3 (2,2,0)	Program
	IS1769	Applied Cryptography	Elective	IS1512	3 (3,0,0)	Program
	IS1770	Supply Chain Management	Elective	IS1510	3 (3,0,0)	Program

*** L→ Lecture, B→Lab, T→ Tutorial