



# Information Technology

Y	Course Code	Course Title	Pre-requisites	Credit Hours	Course Code	Course Title	Pre-requisites	Credit Hours
FIRST YEAR	First Level				Second Level			
	CP 101	Introduction to Computing		3	ARAB 101	Arabic I		3
	CP 110	Programming I		3	CP 115	Programming II	CP 110	3
	ISLS 101	Islamic Studies I		3	CP 120	Digital Logic Design	CP 101	3
	MATH 101	Calculus I	MATH 001	4	MATH 102	Calculus II	MATH 101	4
	STAT 101	General Statistics		3	STAT 102	Probability Theory	STAT 101	3
	Total Credit Hours			16	Total Credit Hours			16
SECOND YEAR	Third Level				Fourth Level			
	CHEM 101	General Chemistry I		4	CP 225	Operating Systems	CP 220	3
	CP 210	Data Structures I	CP 115	3	CP 230	Systems Analysis and Design	CP 210	3
	CP 220	Computer Organization and Architecture	CP 120	3	CP 240	Databases	CP 210	3
	MATH 212	Discrete Math	MATH 101	3	ENG 201	Technical Writing		3
	STAT 250	Applied Probability and Random Processes	STAT 102	3	PHYS 101	General Physics		4
	Total Credit Hours			16	Total Credit Hours			16
THIRD YEAR	Fifth Level				Sixth Level			
	IT 310	Advanced Programing	CP 210	3	IT 335	Project Management	CP 230	3
	IT 325	System Administration	CP 225	3	IT 340	Database Administration	CP 240	3
	CS/IT 350	Computer Networks	CP 225	3	IT 355	Networks Administration	CS/IT 350	3
	IT 370	Introduction to Cybersecurity	CP 225	3	IT XXX	Concentration Course I		3
	CS/IT 380	Human-Computer Interaction	CP 230	3	IT XXX	Concentration Course II		3
	GEE XXX	General Education Elective		3	GEE XXX	General Education Elective		3
	Total Credit Hours			18	Total Credit Hours			18
	Summer							
	IT 390	Summer Training (200 Hours)	Department Approval	1				
FOURTH YEAR	Seventh Level				Eighth Level			
	CS/IT 401	Professional Computing Issues	IT 390	3	IT 491	Needs Assessment and Technology Evaluation	IT 390	3
	CS/IT 498	Senior Project I	IT 390	1	CS/IT 499	Senior Project II	CS/IT 498	3
	IT XXX	Concentration Course III		3	IT XXX	Concentration Course V		3
	IT XXX	Concentration Course IV		3	IT XXX	Major Elective		3
	IT XXX	Major Elective Course		3	IT XXX	Major Elective		3
	GEE XXX	General Education Elective		3	Total Credit Hours			15
	Total Credit Hours			16	Total Credit Hours			15



Bachelor of Science in

# Information Technology

## Concentration Courses

Course Code	Course Title	Pre-requisites	Credit Hours
IT 330	Software Engineering I	CP 230	3
IT 450	Mobile Applications	CS/IT 350	3
IT 455	Internet Applications	CS/IT 350	3
IT 459	Data Network Design and Evaluation	CS/IT 350	3
IT 478	Computer Forensics and Investigation	IT 370	3



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# Cybersecurity

## Concentration Courses

Course Code	Course Title	Pre-requisites	Credit Hours
IT 375	Information Security Management	IT 370	3
IT 378	Fundamentals of Network Security	CS/IT 350	3
IT 471	Cybersecurity Risk Management	IT 370	3
IT 475	Applied Cryptography and Data Security	IT 370	3
IT 478	Computer Forensics and Investigation	IT 370	3



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# Networking

## Concentration Courses

Course Code	Course Title	Pre-requisites	Credit Hours
IT 356	Advanced Computer Networks	CS/IT 350	3
IT 358	Wireless and Mobile Communication	CS/IT 350	3
IT 451	Cloud Computing	CS/IT 350	3
IT 456	Internet of Things	CS/IT 350	3
IT 458	Software Defined Networks	CS/IT 350	3

## Major Electives

Course Code	Course Title	Credit Hours
IT 457	Evolving IT Technologies	3
IT 460	Principles of Artificial Intelligence	3
IT 461	Fundamentals of Data Science	3
IT 462	Business Intelligence	3
IT 472	Penetration Testing and Ethical Hacking	3
IT 485	User-Centered System Design	3
IT 492	E-Business Technology	3
IT 493	Web Development and Security	3
IT 495	Special/Selected Topics	3

## General Education Electives (Free Electives)

Course Code	Course Title	Credit Hours
PSY 101	Introduction to Psychology	3
EI 101	Emotional Intelligence	3
ENG 204	Critical Thinking	3
ETH 101	Social Ethics	3
MKT 333	Public Relations	3
C-MKT 501	Mobile Marketing Technology	3
NPS 101	Negotiation and Problem Solving	3
SPD 101	Soft Skills and Personality Development	3
SCO 101	Introduction to Sociology	3
BUS 223	Research Methodology	3
BUS 425	Entrepreneurship	3
IE 201	Introduction to Engineering Design I	3
LAW -101	Principles of Law	3
TEM -121	Introduction to Tourism and Hospitality	3
ID 274	Design Theories	3
ID 275	Art and Architecture History I	3
GD 286	Photography I	3
GD 088	Islamic Art	3
GFID 106	Digital Communications	3
GED 100	Introduction of Design Software	3

## Preparation Course

Course Code	Course Title	Credit Hours
MATH 001	Precalculus	NP

Total Credit Hours:	132
General Requirements:	37
Major Requirements:	35
Major Electives Requirements:	9
General Education Electives Requirements:	9
General Computing Requirements:	27
Concentration Requirements:	15