

1. Programme Structure

Students seeking a BSc Honours degree in Information Technology and Computing / AI must complete at least 131 credit hours

No.	Category	Points	Credit Hours
1	University Requirements / Mandatory	60	18
2	University Requirements / Electives	10	3
3	Faculty Requirements / Mandatory	30	8
4	Faculty Requirements/ Electives	20	6
5	Specialization/Track Requirements / Mandatory	360	96
Total		480	131

2. Programme Requirements (131 Credits)

1. University Requirements / Mandatory

(60 points/18 credit hours)

Course Code	Course Title	Credit hours	Prerequisites	Source
AR113	Arabic Communication Skills	3	--	AOU
GB102	Principles of Entrepreneurship for Non-Specialists	3	--	AOU
GR118	Life Skills and Coexistence	3	--	AOU
GT101	Learning and Information Technology	3	--	AOU
EL111	English Communication Skills I	3	EL099	AOU
EL112	English Communication Skills II	3	EL111	AOU
Total		18		

2. University Requirements / Electives

(10 points/3 credit hours)

Course Code	Course Title	Course Level	Credit hours	Prerequisites	Source
GR111	Arabic Islamic Civilization	1	3	--	AOU
GR112	Issues and Problems of Development in the Arab World	1	3	--	AOU
GR115	Current International Issues and Problems	1	3	--	AOU
GR116	Youth Empowerment	1	3	--	AOU
GR117	Women Empowerment	1	3	--	AOU
GR121	Environment and Health	1	3	--	AOU
GR131	General Branch Requirement	1	3	--	AOU
CH101	Chinese for Beginners (I)	1	3	--	AOU
CH102	Chinese for Beginners (II)	1	3	CH101	AOU
SL101	Spanish for Beginners (I)	1	3	--	AOU
SL102	Spanish for Beginners (II)	1	3	SL101	AOU
FR101	French for Beginners (I)	1	3	--	AOU
FR102	French for Beginners (II)	1	3	FR101	AOU
Total			3		

3. Faculty Requirements / Mandatory

(30 points/8 credit hours)

Course Code	Course Title	Course Level	Credit hours	Prerequisite	Source
MST129	Applied Calculus	1	4	EL099	AOU
TM260*	Ethics, Law and the Governance in IT	2	4	TM271	AOU
Total			8		

4. Faculty Requirements / Elective

(20 points/6 credit hours)

Course Code	Course Title	Course Level	Credit hours	Prerequisite	Equivalency
MS102	Physics	1	3	EL111	AOU
M109	.NET Programming	1	3	EL111	AOU
MT101	General Mathematics	1	3	-	AOU
TM280	Smart IoT Systems	2	3	TM112	AOU
TM380	Autonomous Robotic System	3	3	TM271	AOU
Total			6		

5. Specialization Requirements / Mandatory

(360 points/96 credit hours)

Level	Course Code	Course Title	Credit hours	Prerequisite	Source
1	TM103	Computer Organization and Architecture	4	EL111	AOU
	MT131	Discrete Mathematics	4	EL111	AOU
	MT132	Linear Algebra	4	EL111	AOU
	M110	Python Programming	8	EL111	AOU
	TM112	Introduction to Computing and Information Technology	8	M110	OU
	MT141	Introduction to Probability and Statistics	4	EL111	AOU
2	M269	Algorithms, Data Structures and Computability	8	M110 & MT131	OU
	TM275	Parallel and Distributed Systems	4	TM103	AOU
	TM270	Artificial intelligence	8	TM112 & MT141	AOU
	TM271	Machine Learning and Deep learning	8	TM270 & MT141	AOU
	TM276	Software Development Processes and Methodologies	4	TM112	AOU
3	TM351	Data Management and Analysis	8	M269 or M251*	OU
	TM340	Natural Language Processing	8	TM271	AOU
	TM341	Computer Vision	8	TM271	AOU
	TM471	Graduation Project (AI pathway)	8	TM351 or TM340* or TM341**	AOU
Total			96		