

College of Information Technology
Bachelor of Science in Information Technology – Major in Artificial Intelligence



COURSE NO.	UNIVERSITY REQUIREMENTS (30 CREDIT HOURS)	PREREQUISITE	CH
COMM 103	Language and Communication	None	3
HIST 103	History of Qatar	None	3
LAWC 305	Governance	None	3
SOCI 102	Islamic and World Cultures	None	3
UNIV 101	University Success	None	3
UNIV 201	Leadership, Entrepreneurship, and Innovation	None	3
ENGL 114	English Composition I	None	3
ENGL 115	English Composition II	ENGL 114	3
STDE 201	Sustainable Development	None	3
Foreign Language	Foreign Language Requirement	None	3
COURSE NO.	Major Requirements (33 Credit Hours)	Prerequisite	CH
ITGM 309	Computer Graphics	None	3
ITAI 201	Introduction to AI	ITCC 201	3
ITAI 404	Robotics and Intelligent Systems	None	3
ITAI 301	Machine Learning	ITAI 201	3
ITAI 206	Intelligent Embedded Systems	None	3
ITAI 405	Natural Language Processing	None	3
ITAI 290	Cognitive Computing	None	3
ITAI 406	Advanced Artificial Intelligence	ITAI 201	3
ITAI 403	Computer Vision and Visualization	ITAI 201	3
ITAI 350	Neural Networks	None	3
ITAI 353	Architecture of Intelligence Systems	None	3

COURSE NO.	COLLEGE REQUIREMENTS (45 CREDIT HOURS)	PREREQUISITE	CH
ITCC 101	Linear Algebra	None	3
STAT 201	Probability and Statistics	None	3
ITCC 102	Discrete Math	ITCC 101	3
ITCC 110	Fourth Industrial Revolution	None	3
ITCC 103	Algorithms and Problem-Solving	None	3
ITCC 201	Data Structure	ITCC 103	3
ITCC 301	Operating Systems	None	3
ITCC 303	IT Innovation and Entrepreneurship	None	3
ITCC 204	Computer Programming I	None	3
ITCC 205	Digital Design	None	3
ITCC 306	Database Systems	None	3
ITCC 302	Ethics and Professional Responsibilities	None	3
ITCC 250	Computer Programming II	ITCC 204	3
ITCC 401	Graduation Project I	STAT 201	3
ITCC 402	Graduation Project II	ITCC 401	3
Course No.	Major Elective Courses (9 Credit Hours)	Prerequisite	CH
ITAI 390	Special Topics in AI	None	3
ITEC 303	Data Analytics	None	3
ITEC 304	Cloud Computing	None	3
ITEC 402	Data Governance	None	3
ITEC 403	Mobile Applications Development	None	3
ITEC 404	Autonomous Systems	None	3
Free Electives (3 Credit Hours)			
Students may choose 3 credit hours from any courses offered at Lusail University.			
FREL	Free Elective	None	3

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Program Plan



Academic Year 1 (30)					
Semester 1 - Fall Semester			Semester 2 - Spring Semester		
Course no	Course Title	CH	Course no	Course Title	CH
HIST 103	History of Qatar	3	UNIV 201	Leadership, Entrepreneurship, and Innovation	3
UNIV 101	University Success	3	ENGL 115	English Composition II	3
ENGL 114	English Composition I	3	ITCC 102	Discrete Math	3
ITCC 101	Linear Algebra	3	ITCC 103	Algorithms and Problem-Solving	3
ITCC 110	Fourth Industrial Revolution	3	LAWC 305	Governance	3
Total Credit Hours = 15			Total Credit Hours = 15		
Academic Year 2 (30)					
Semester 1 - Fall Semester			Semester 2 - Spring Semester		
Course no	Course Title	CH	Course no	Course Title	CH
COMM 103	Language and Communication	3	Foreign Language	Foreign Language Requirement	3
STDE 201	Sustainable Development	3	ITCC 250	Computer Programming II	3
STAT 201	Probability and Statistics	3	ITCC 205	Digital Design	3
ITCC 201	Data Structure	3	ITAI 201	Introduction to AI	3
ITCC 204	Computer Programming I	3	ITAI 206	Intelligent Embedded Systems	3
Total Credit Hours = 15			Total Credit Hours = 15		
Academic Year 3 (30)					
Semester 1 - Fall Semester			Semester 2 - Spring Semester		
Course no	Course Title	CH	Course no	Course Title	CH
ITCC 306	Database Systems	3	SOCI 102	Islamic and World Cultures	3
ITCC 301	Operating Systems	3	ITCC 302	Ethics and Professional Responsibilities	3
ITCC 303	IT Innovation and Entrepreneurship	3	ITAI 301	Machine Learning	3
ITAI 290	Cognitive Computing	3	ITAI 353	Architecture of Intelligent Systems	3
Major Elective	Major Elective	3	ITAI 350	Neural Networks	3
Total Credit Hours = 15			Total Credit Hours = 15		
Academic Year 4 (30)					
Semester 1 - Fall Semester			Semester 2 - Spring Semester		
Course no	Course Title	CH	Course no	Course Title	CH
ITCC 401	Graduation Project I	3	ITCC 402	Graduation Project II	3
ITGM 309	Computer Graphics	3	Major Elective	Major Elective	3
ITAI 403	Computer Vision and Visualization	3	ITAI 406	Advanced Artificial Intelligence	3
ITAI 405	Natural Language Processing	3	ITAI 404	Robotics and Intelligent Systems	3
Major Elective	Major Elective	3	Free Elective	Free Elective	3
Total Credit Hours = 15			Total Credit Hours = 15		