

Engineering
Computer Engineering

Study Program : Bachelor
Study Plan Type : Major
Academic Year : 2023

The requirements to obtain a Bachelor degree is :-

* The minimum requirements to get a Bachelor degree in / Computer Engineering / is to pass 160 credit hours, according to this study plan.

* The credit hours are distributed to get a Bachelor degree as follows :-

	Number of credit hours
University Requirements	24.000
Compulsory	18.000
Elective	6.000
Faculty Requirements	33.000
Compulsory	33.000
Specialization Requirments	103.000
Compulsory	88.000
Elective	15.000
Pre-requist Courses	0.000
	0.000
Total :	160.000

University Requirements Credit Hours : 24
Requirement type : Compulsory Credit Hours :18

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2116011101	Arabic Communication Skills	3.000	3.000	0.000	121601099	online learning
2116021101	English Communication Skills	3.000	3.000	0.000	121602099	online learning
2214041117	Military Science	3.000	3.000			online learning
1714041118	National Education	3.000	3.000	0.000		in class
2114041123	Leadership and Social Responsibility	2.000	2.000	0.000		online learning
2114041124	Enterpreneurship and Innovation	2.000	2.000	0.000		online learning
2114041125	Life Skills	2.000	2.000	0.000		online learning

University Requirements Credit Hours : 24
Requirement type : Elective Credit Hours :6

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Course Type
1804001128	Cyber Hygiene	3.000	3.000	0.000	110108099	in class
2210031100	digital culture	3.000	3.000	0.000		online learning
2416031102	Spanish Language (2)	3.000	3.000	0.000		
2416031103	French Language (1)	3.000	3.000	0.000		in class
2416031104	French Language (2)	3.000	3.000	0.000		
1916033201	Italian Language (2)	3.000	3.000	0.000	1716031101	online learning
1916034101	Russian Language (1)	3.000	3.000	0.000		online learning
1916034102	Russian Language (2)	3.000	3.000	0.000		
1916034201	Japanese (2)	3.000	3.000	0.000	1716031102	blended learning
1916035101	Turkish Language (1)	3.000	3.000	0.000		in class
1916036101	Korean Language (1)	3.000	3.000	0.000		in class
1916036102	Korean Language(2)	3.000	3.000	0.000	1916036101	
1916037101	German Language (1)	3.000	3.000	0.000		online learning
1916038101	Chinese Language (1)	3.000	3.000			online learning
1916039101	Polish Language (1)	3.000	3.000	0.000		in class
1714041101	University Life of Student	3.000	3.000			online learning
1714041102	Introduction to Psychology	3.000	3.000			online learning
1714041104	Family and Child Education	3.000	3.000			online learning
1714041107	Citizenship and Human Rights	3.000	3.000			online learning
1714041110	Islam Current Issues	3.000	3.000			online learning
1714041111	Islamic Thought	3.000	3.000			online learning
1714041112	Jerusalem : Histroy and Civilization	3.000	3.000			in class
1714041113	Citizenship and Human Rights	3.000	3.000	0.000		online learning

University Requirements Credit Hours : 24
Requirement type : Elective Credit Hours :6

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1714041114	Histry and Civilization of Jordan	3.000	3.000			online learning
1714041115	Sociology	3.000	3.000			in class
1714041116	Archaeology and Tourism	3.000	3.000			online learning
1714041120	Economic and Management Science	3.000	3.000			blended learning
1714041121	Law and Ordering of Our Life	3.000	3.000			online learning
1714041122	Principles of Sign Language	3.000	3.000			in class
1714041126	Humanistic Moral and Values Education	3.000	3.000			online learning
1714041127	Conflict Resolution and Accept Others	3.000	3.000			online learning
1714041128	Culutural Heritage in Jordan	3.000	3.000			
1914041130	Integrity Transperancy and anti - Corruption	3.000	3.000	0.000		online learning
1714041193	Palestinian Cause	3.000	3.000			online learning
1714041194	Arabic Language and Current Issues	3.000	3.000			online learning
1814041195	Disability and Healthy Community	3.000	3.000			online learning
1814041197	Selected Topics in National Trends	3.000	3.000			
1814041198	Education for Sustainable Development	3.000	3.000			online learning
1814041199	Adjustment and Mental Health	3.000	3.000			online learning
1814041200	Introduction to Education	3.000	3.000			online learning
1914042111	Media Education	3.000	3.000	0.000		online learning
2101081139	Physical Culture	3.000	3.000	0.000		online learning
2201081140	Development and Environment	3.000	3.000	0.000		online learning
2401081141	Oral and Dental Healthcare	3.000	3.000	0.000		
0110108104	Energy and its Sources	3.000	3.000	0.000		online learning
0110108113	Biotechnology and Society	3.000	3.000	0.000		online learning

University Requirements Credit Hours : 24
Requirement type : Elective Credit Hours :6

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Course Type
0110108114	Automobile Essentials	3.000	3.000	0.000		
0110108115	Computer Ethics	3.000	3.000	0.000		blended learning
0110108130	Health and Nutrients	3.000	3.000	0.000		online learning
0110108131	Health Education and First Aid	3.000	3.000	0.000		online learning
0110108132	Sport and Health	3.000	3.000	0.000		online learning
0140108134	Ethics in Natural Science	3.000	3.000	0.000		online learning
0170108135	Reproductive Health	3.000	3.000	0.000		online learning
0140108166	Pharmaceutical Edification	3.000	3.000	0.000		
0121601105	Applied Arabic Language	3.000	3.000			in class
0121602102	Applied English Language	3.000	3.000	0.000		blended learning
0121602103	Technical Translation	3.000	3.000	0.000		blended learning
0141603101	Italian Language	3.000	3.000			in class
0151603102	Japanese Language (Level 1)	3.000	3.000	0.000		blended learning
0121603201	Spanish Language (1)	3.000	3.000			online learning

Faculty Requirements Credit Hours : 33
Requirement type : Compulsory Credit Hours :33

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0110101102	Calculus (2)	3.000	3.000	0.000	110108101	blended learning
0110101201	Calculus (3)	3.000	3.000	0.000	110101102	blended learning
0110101203	Ordinary Differential Equations (1)	3.000	3.000	0.000	110101102	blended learning
0110102101	General Physics (1)	3.000	3.000	0.000		
0110102102	General Physics (2)	3.000	3.000	0.000	1701081136	in class
0110102103	General Physics Laboratory (1)	1.000	0.000	3.000	1701081136 synchronous	in class
0110103107	Basics of General Chemistry	3.000	3.000	0.000		
0110103108	Basics of General Chemistry Laboratory	1.000	0.000	3.000	110103107 synchronous OR 1701081137 synchronous	in class
0110108101	Calculus (1)	3.000	3.000	0.000		blended learning
0110400101	Engineering Workshop	1.000	0.500	2.000		blended learning
0110400102	Computer Programming	3.000	3.000	0.000	110108099	blended learning
0110400201	Manual Engineering Drawing	2.000	1.000	3.000		in class
0110400202	Computer Aided Engineering Drawing	1.000	0.000	3.000	110400201	in class
0110400203	Ethics and Communication Skills	3.000	3.000	0.000	111405110 OR 121602101	blended learning

Specialization Requirments Credit Hours : 103
Requirement type : Compulsory Credit Hours :88

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1704001303	Numerical Analysis	3.000	3.000	0.000	(110101203) AND (110400102 OR 110108112)	in class
0111002240	Introduction to Database Systems	3.000	3.000	0.000	111001250 OR 110408213	
2104031302	Engineering Economy	2.000	2.000	0.000	110101102	in class
2104081311	Object-Oriented Programming	3.000	3.000	0.000	110400102 OR 110108112	in class
2104081314	Computer Applications Lab	1.000	0.000	3.000	110400102 OR 110108112	in class
2304081326	Embedded System Lab	1.000	0.000	3.000	2304081362	in class
2304081330	Computer Organization	3.000	3.000	0.000	110409240 AND 110408220	in class
2304081333	Microprocessors Lab	1.000	0.000	3.000	(2304081330 OR 2304081433) AND 110408221	in class
2304081362	Embedded Systems	3.000	2.000	2.000	2304081330	in class
2104081374	Artificial Intelligence and Machine Learning	3.000	3.000	0.000	110408300 synchronous	in class
2104081410	Data and Systems Science	3.000	3.000	0.000	110408300 AND 110408450	in class
2304081415	Introduction to Software	3.000	3.000	0.000	2104081311	
2304081443	Computer Architecture	3.000	3.000	0.000	2304081330	in class
2004081480	Practical Training	3.000	0.000	0.000	110400203	in class
2104091322	Signals and Systems	3.000	3.000	0.000	(110101152 AND 110101203) OR (110406260 OR 2104091201)	in class
2104091352	electronic circuit lab	1.000	0.000	3.000	110409260 AND 110409240	in class
0110101152	Discrete Mathematics	3.000	3.000	0.000		in class
0110403242	Statistics and Probabilities	3.000	3.000		110101102	in class
0110405331	Automatic Control	3.000	3.000	0.000	110101203	in class
0110406229	Fundamentals of Electrical Circuits	3.000	3.000	0.000	110102102 AND 110101102	in class
0110408213	Data Structure	3.000	2.000	2.000	110108112 OR 110400102	in class
0110408220	Digital Logic	3.000	3.000	0.000	110101102 OR 110101152	in class

Specialization Requirments Credit Hours : 103
Requirement type : Compulsory Credit Hours :88

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0110408221	Digital Logic Lab	1.000	0.000	3.000	110408220	in class
0110408300	Algorithms	3.000	3.000	0.000	110408213 AND 110101152	in class
0110408303	Fundamentals of Communications	3.000	3.000		110403242 AND 110409322	in class
0110408327	Digital Electronics and Integrated Circuits	3.000	3.000	0.000	110409240 AND 110408220	in class
0110408442	Computer Maintenance Lab	1.000	0.000	3.000	110409240 AND 110408340	in class
0110408450	Computer Networks	3.000	3.000		110408303	in class
0110408454	Computer Networking Lab	1.000	0.000	3.000	110408450	in class
0110408455	Operating Systems	3.000	2.000	2.000	110408340	in class
0110408456	Computer Security	3.000	3.000	0.000	110408450 AND 110408300	in class
0110408457	Wireless Networks	3.000	2.000	2.000	110408450	in class
0110408591	Graduation Project (1)	1.000	0.000	3.000		in class
0110408592	Graduation Project (2)	2.000	0.000	6.000	110408591	in class
0110409240	Electronics (1)	3.000	3.000	0.000	110409201 OR 110406229	in class
0110409260	Fundamentals of Electrical Circuits Lab.	1.000	0.000	3.000	110102103 AND 110406229	in class

Specialization Requirments Credit Hours : 103
Requirement type : Elective Credit Hours :15

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2104081423	VLSI Design	3.000	3.000	0.000	110408327	blended learning
2104081458	Computer Digital Forensics	3.000	3.000	0.000	110408456 synchronous	
1904081505	Hardware Computer Security	3.000	3.000	0.000	110408423 synchronous	
2304081510	Systems Programming	3.000	3.000	0.000	110408213 AND 2304081330	blended learning
2104081511	Data Mining Principles	3.000	3.000	0.000	110408213	
2104081512	Big Data	3.000	3.000	0.000	2104081374	
2304081530	Microprocessors Based Systems	3.000	3.000	0.000	2304081433 OR 2304081330	blended learning
1704081561	Information Systems and Network Infrastructure Protection	3.000	3.000	0.000	110408456 synchronous	in class
2104081562	Software Reverse Engineering	3.000	3.000	0.000	110408362	
2104081566	Concurrent and Distributed Systems	3.000	3.000	0.000	110408455	
1704081572	Cryptographic Systems	3.000	3.000	0.000	110408300	blended learning
2104081573	Networks and Internet Security	3.000	3.000	0.000	110408456 synchronous	in class
1704081580	Multimedia Systems and Networks	3.000	3.000	0.000	110408450	
1704081581	Computer Vision	3.000	3.000	0.000	110408300	in class
1704081582	Parallel Computing	3.000	3.000	0.000	110408443	blended learning
1704081584	Advanced Programming	3.000	3.000	0.000	110408300	in class
1704081585	Digital Image Processing	3.000	3.000	0.000	110408300	in class
0110408522	Digital Systems Design	3.000	3.000	0.000	110408327	in class
0110408553	Wireless Networks Security and Protocols	3.000	3.000	0.000	110408457 AND 110408456	
0110408557	Internet Protocols	3.000	3.000	0.000	110408450	blended learning
0110408560	Networks Modeling and Simulation	3.000	3.000	0.000	110408450	
0110408565	Real-Time Systems	3.000	3.000	0.000	110408455 AND 110408362	in class
0110408577	VLSI Systems	3.000	3.000	0.000	110408423	in class
0110408593	Special Topics in Computer Engineering	3.000	3.000	0.000		in class

Courses - Not Allowed To Study Credit Hours : 0
Requirement type : Credit Hours :0

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0110108112	Computer Programming	3.000	3.000	0.000	(1001103 AND 1001104) OR (110108099 OR 1011100)	blended learning

Pre-Requist Courses Credit Hours : 0

Requirement type : Credit Hours :0

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0001001096	Computer Skills Test	0.000	0.000	0.000		in class
0110108099	Computer Skills/ Prerequisite	3.000	3.000	0.000	1001096	online learning
0002110096	Arabic Placement Test	0.000	0.000	0.000		in class
0002120096	English Placement Test	0.000	0.000	0.000		in class
0111405098	Arabic Language / Pre-requisite	3.000	3.000	0.000	2110096	
0111405099	English Language/ pre-requisite	3.000	3.000	0.000	2120096	

free study materials are (3) credit hours, The student chooses it from any of the courses offered by the university departments.