

**Academic Plan**  
**Baccalaureate degree**  
**Communication and electronics engineering**

**First: University Requirements (24) Credits Hours:**

**A- Compulsory University Requirements (12) Credits Hours:**

Course number	Course Title	Credits Hours
01100011	Arabic Language/Remedial	0
01100012	English Language/ Remedial	0
01100051	Computer Skills/ Remedial	0
01101111	Arabic Language	3
01101112	English Language	3
01101101	Military Sciences	3
01101102	National Education*	3
<b>Total</b>		<b>12</b>

**B- Elective University requirements (12) Credits hours, chosen by the student from this list:**

Course number	Course Title	Credits Hours	Prerequisite
01101103	Traffic Education	3	--
01101104	Innovation and Entrepreneurship	3	
01101121	Life Skills	3	
01101131	Islamic Education	3	
01101132	Jerusalem and the Hashemite Custodianship	3	
01101141	Sport and Health	3	
01101142	Environment and Society	3	
01101151	Computer Skills	3	
01101152	Internet and Communication	3	
01101161	Economic Systems and Concepts	3	
01101171	Psychology and Society	3	
01101213	Communication Skills in Arabic	3	01101111
01101214	Communication Skills in English	3	01101112
01101243	Safety and First Aid	3	
01101281	Scientific Research Methods	3	
01101282	Introduction to Astronomy	3	
03011101	Law in our Life	3	
03021201	Human Rights	3	

\*Compulsory for "Communication and Electronics engineering" students

## Second: Compulsory faculty requirements (24) Credits Hours:

Course number	Course Title	Cr. Hrs	Theory	Practical	Prerequisite
11031101	Calculus(1)	3	✓		-
11031202	Calculus(2)	3	✓		11031101
11021101	General Physics(1)	3	✓		-
11021202	General Physics(2)	3	✓		11021101
11021111	General Physics Lab(1)	1		✓	11021101 (W)
11021212	General Physics Lab(2)	1		✓	11021202(W)
04021120	Engineering Workshops	1		✓	-
04032101	Engineering Drawing	3	✓	✓	-
04032102	Engineering Career Ethics	1	✓		-
04033101	Technical Writing	2	✓		01101112 & Completion of 70 Cr. Hrs
04033102	Administration and Engineering Economy	3	✓		11031202
<b>Total</b>			<b>24</b>		

## Third: Compulsory department requirements (103) Credits Hours:

Course number	Course Title	Cr. Hrs	Theor y	Practi cal	Prerequisite
04022110	Engineering Analysis (1)	3	✓		11031202
04022210	Engineering Analysis (2)	3	✓		04022110
04023110	Engineering Analysis (3)	3	✓		04022210
04021220	Programming Principles for Engineers	3	✓		01101151
04022130	Electrical Circuits(1)	3	✓		11021202
04022230	Electrical Circuits (2)	3	✓		04022130
04022171	Advanced Programming	3	✓		04021220 W 0 Hr practical lab
04022231	Electrical Circuits Lab	1		✓	04022230
04022170	Digital Logic Circuits	3	✓		11021202
04022270	Digital Logic Lab	1		✓	W04022170
04022240	Electronics(1)	3	✓		04022130
04023211	Numerical Methods	3	✓		04022110 & 04022210
04023210	Probability and Random Signals	3	✓		04022210
04023231	Software Engineering Laboratory	1		✓	01101151 & 04023211
04023230	Systems and Signal Processing	3	✓		04023110

04022271	Microprocessors and Assembly Language	3	✓		04022170
04023270	Microprocessor Lab	1		✓	04022271
04023130	Electromagnetic(1)	3	✓		04022210
04023250	Electromagnetic(2)	3	✓		04023130
04023140	Electronics(2)	3	✓		04022240
04023142	Digital Electronics	3	✓		04022240 & 04022170
04023141	Electronics Lab	1		✓	(W) 04023140
04023240	Digital Electronics Lab	1		✓	04023142
04023260	Electrical Machines	3	✓		04023130 & 04022230
04024160	Electrical Machines Lab	1		✓	04023260
04024150	Analog Communications	3	✓		04023210 & 04023230
04024251	Digital Communications	3	✓		04024150
04024151	Digital Signal Processing	3	✓		04023230
04024252	Digital Signal Processing Lab	1		✓	04024151
04024250	Analog Communications lab	1		✓	04024150
04024161	Control Systems	3	✓		04023230
04024162	Control Systems Lab	1		✓	04024161
04024140	Power Electronics	3	✓		04023140
04025140	Power Electronics Lab	1		✓	04024140
04024260	Power Systems Analysis	3	✓		04023260
04025160	Power Systems Lab	1		✓	04024260
04025152	Cellular & Mobile Communications	3	✓		04023250 & 04024251
04025151	Modern Communications Systems	3	✓		04024251
04025250	Digital Communications Networks	3	✓		04024251
04025150	Digital Communications lab	1		✓	04024251
04025240	Communication Electronics	3	✓		04024150 & 04023140
04025190	Graduation Project(1)	1		✓	04024390
04025290	Graduation Project(2)	2		✓	04025190
04024390	Engineering training Practical training of 280 hrs	3		✓	Completion of 115 Cr. Hrs
<b>Total</b>		<b>103</b>			

#### Fourth: Elective Department Requirements (9) Credits Hours:

Course number	Course Title	Cr. Hrs	Theory	Practical	Prerequisite
04024268	Measurements and instrumentation	3	✓		04022240
04025169	Modeling and Simulation	3	✓		04022210
04024280	Modern Filter Design	3	✓		04023140
04024274	Digital Image Processing	3	✓		04023230
04025175	Visual Programming	3	✓		04024151
04025276	Introduction to Robotics	3	✓		04024161
04025281	Optical Communications	3	✓		04024251 04023250
04025282	Selected Topics in Communications	3	✓		SCEED*
04025283	Error Control & Coding	3	✓		04024251
04025277	Embedded Systems	3	✓		04022271 04024161
04025178	Introduction to Artificial Intelligence	3	✓		04022271
04025184	Antennas and Waves Propagation	3	✓		04023250
04025285	Introduction to Wireless Networks	3	✓		04024251
04025186	Biomedical Electronics	3	✓		04023140
04025279	Introduction to VLSI Design	3	✓		04023142
04025287	Optical Electronics	3	✓		04023140
04025188	Microwave Electronics	3	✓		04023250
04025189	Selected Topics in Electronics Engineering	3	✓		SCEED*

\*SCEED: Statement of the council of the Electrical Engineering Department.

#### Fifth: Free Course (3) Credits Hours:

Free course (3) Credits Hours Chosen from the courses offered by the university without repetition
*Non Jordanian Students can select two other courses as a substitution of the Military Sciences (01101101) and the Civic Education (01101102).