



## I: University Requirements: 25 Credit Hours

**A. Remedial Requirements (0 Credit Hours):** Students must sit for placement tests in English, Arabic, and Computer. Students who fail any of these tests are required to take the corresponding remedial course 0900099, 0900097, or 0900096, respectively.

## B. University Compulsory Course Requirements: 12 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab	
0900101	Sports (1)	1	0	3	-
0900103	Swimming	1	0	2	-
0900110	Cultural Development (1)	1	0	2	-
0900111	Military Science*	3	3	0	-
0900130	English Communication Skills (1)	3	3	0	0900099**
0900131	English Communication Skills (2)	3	3	0	0900130

\* Non-Jordanian students may take a university elective course instead.

\*\* Or passing the placement test.

## C. University Elective Course Requirements: 13 Credit Hours

### Humanities: 7 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab	
0900113	Interpersonal and Intercultural Communication	3	3	0	-
0900117	Civic Awareness	3	3	0	-
0900120	Arabic Communication Skills	3	3	0	0900097*
0900140	Appreciation of Art	3	3	0	-
0900141	Appreciation of Music	3	3	0	-
0900163	Modern life skills	3	3	0	-
0900164	Creativity and Innovation	3	3	0	-
0900201	Sports (2)	1	0	3	0900101
0900202	Sports (3)	1	0	3	0900201
0900210	Cultural Development (2)	1	0	2	0900110
0900211	Cultural Development (3)	1	0	2	0900210

\* Or passing the placement test.

### Social and Economic Sciences: 3 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab	
0900114	Civilization and Thought	3	3	0	-
0900115	Social Ethics	3	3	0	-
0900150	Introduction to Economics*	3	3	0	-
0900160	Entrepreneurship and Enterprises	3	3	0	-

\* Not for Business and Finance Students

### Science, Technology, Agriculture and Health: 3 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab	
0900116	Bio-Ethics	3	3	0	-
0900170	Energy and the Environment	3	3	0	-
0900171	Science and Society	3	3	0	-
0900180	Computer Skills*	3	2	2	0900096**

\* Not for Information Technology Students.

\*\* Or passing the placement test.

## II. Faculty Requirements: 27 Credit Hours

### Compulsory Requirements: 27 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab.	
0102200	Engineering Drawing	2	0	3	-
0102460	Engineering Economics	2	2	0	0903281
0104100	Engineering Workshops	1	0	3	-
0104400	Topics in Engineering Profession	2	2	0	0900130
0903101	Calculus (1)	3	3	0	-
0903102	Calculus (2)	3	3	0	0903101
0904101	General Physics (1)	3	3	0	-
0904102	General Physics (2)	3	3	0	0904101
0904107	General Physics Lab (1)	1	0	3	0904101*
0904108	General Physics Lab (2)	1	0	3	0904102*
0401222	Introduction to C++ programming	3	3	0	-
0903381	Numerical Analysis	3	3	0	0903102

(\*) denotes that the prerequisite can be taken concurrently.

## III. Department Requirements: 106 Credit Hours

### A. Compulsory Requirements: 79 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab.	
0103212	Electric Circuits (1)	3	3	0	0904102
0103213	Electric Circuits (2)	3	3	0	0103212+0103250
0103214	Electric Circuits Lab	1	0	3	0103213
0103215	Electromagnetics (1)	3	3	0	0903202 +0904102
0103220	Electronics (1)	3	3	0	0103212
0103221	Electronics Lab (1)	1	0	3	103220*
0103240	Digital Logic Design	3	3	0	--
0103241	Digital Logic Design Lab	1	0	3	0103240
0103250	Simulation Tools	2	3	0	0401222
0103311	Electrical Machines (1)	3	3	0	0103215
0103312	Measurements and Instrumentation	3	3	0	0103220
0103320	Electronics (2)	3	3	0	0103220
0103321	Electronics Lab (2)	1	0	3	0103320*
0103325	Digital Electronics	3	3	0	0103320
0103326	Digital Electronics Lab	1	0	3	0103321+0103325*
0103340	Microprocessors and Assembly	3	3	0	0103240
0103350	Signals and Systems	3	3	0	0903102
0103410	Control Systems	3	3	0	0103350
0103411	Power Systems (1)	3	3	0	0103311
0103412	Electrical Machines and Power Lab	1	0	3	0103411
0103413	Control Lab	1	0	3	0103410
0103415	Introduction to Robotics	3	3	0	0102310+0103410
0103420	Communications Electronics	3	3	0	0103320+0103450
0103421	Communications Electronics Lab	1	0	3	0103420+0103321
0103441	Embedded Systems	3	3	0	0103340
0103442	Microprocessor and Embedded Systems	1	0	3	0103441*
0103450	Analog Communications	3	3	0	0103350
0103451	Digital Communications	3	3	0	0103450+0903281
0103457	Analog Communications Lab	1	0	3	0103450*
0103480	Practical Electrical Engineering Training	3	-	-	Completion of 120 Cr. Hrs.
0103458	Digital Communications Lab	1	0	3	0103451*
0103522	Power Electronics	3	3	0	0103411+0103320
0103550	Communication Systems	3	3	0	0103451
0103591	Graduation Project (1)	1	-	-	Completion of 120 Cr. Hrs.
0103592	Graduation Project (2)	2	-	-	0103591

## B. Electives Requirements: 12 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab.	
0103416	Power Transmission and Distribution	3	3	0	0103411
0103444	Database Systems	3	3	0	0103443
0103445	Computer Organization	3	3	0	0103240
0103455	Digital Signal Processing	3	3	0	0103450
0103512	Power Systems (2)	3	3	0	0103411
0103515	Electrical Machines (2)	3	3	0	0103311
0103517	Special Topics in Power Engineering	3	3	0	Department Approval
0103525	Special Topics in Electronic	3	3	0	Department Approval
0103544	Special Topics in Computer Engineering	3	3	0	Department Approval
0103545	Computer Architecture	3	3	0	0103445
0103552	Wireless Communications	3	3	0	0103451
0103558	Special Topics in Communications Engineering	3	3	0	Department Approval

## C. Ancillary Requirements: 15 Credit Hours

Course No	Course Title	Credit Hours	Contact Hours		Prerequisite
			Lecture	Lab.	
0102310	Engineering Mechanics	3	3	0	0903101
0903201	Applied Math for Engineering (1)	3	3	0	0903102
0903202	Calculus (3)	3	3	0	0903102
0903301	Applied Math for Engineering (2)	3	3	0	0903201
0903281	Probability and Statistics	3	3	0	-

## IV. Free Electives: 6 Credit Hours

Students may choose any course(s) offered by the University in accordance with University regulations.