



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

**1) Compulsory Subjects: (12) Credit Hours**

| Course No. | Course Title                 | CR | Prerequisite | Exception      |
|------------|------------------------------|----|--------------|----------------|
| A0161101   | Arabic Communication Skills  | 3  | A0161100     | -              |
| A0161201   | English Communication Skills | 3  | A0161200     | -              |
| A0161301   | National Education           | 3  | -            | -              |
| A0161401   | Military Sciences            | 3  | -            | Non-Jordanians |

**2) Elective Subjects: (12) Credit Hours, student can choose from any of the following:**

**A. First Group: maximum (6) Credit Hours**

| Course No. | Course Title                     | CR | Exception          |
|------------|----------------------------------|----|--------------------|
| A0161501   | Islamic Culture                  | 3  | -                  |
| A0161601   | Contemporary Issues              | 3  | -                  |
| A0161701   | History of Jordan and Palestine  | 3  | -                  |
| A0161703   | Archeology and tourism in Jordan | 3  | Marketing students |
| A0161901   | Media and Public Relations       | 3  | -                  |
| A0411601   | Legal Education and Human Rights | 3  | Law students       |

**B. Second Group: maximum (6) Credit Hours**

| Course No. | Course Title                   | CR | Exception                |
|------------|--------------------------------|----|--------------------------|
| A0161602   | Critical Thinking Skills       | 3  | -                        |
| A0161603   | Entrepreneurship Skills        | 3  | -                        |
| A0161801   | Environment and Public Safety  | 3  | -                        |
| A0181100   | Sport and Health               | 3  | Sport students           |
| A0612303   | Community Health               | 3  | Nursing students         |
| A0871103   | Principles of Renewable Energy | 3  | Electrical Eng. students |

**Second: Faculty Requirements: (37) Credit Hours**

| Course No. | Course Title                  | CR | Prerequisite | Co-requisite |
|------------|-------------------------------|----|--------------|--------------|
| A0111101   | Mathematics (1)               | 3  | -            | -            |
| A0111102   | Mathematics (2)               | 3  | A0111101     | -            |
| A0111201   | General Physics (1)           | 3  | -            | -            |
| A0111202   | General Physics (2)           | 3  | A0111201     | -            |
| A0111203   | General Physics Lab.          | 1  | -            | A0111201     |
| A0111301   | General Chemistry             | 3  | -            | -            |
| A0112101   | Linear Algebra                | 3  | A0111102     | -            |
| A0811201   | Computer Skills (Engineering) | 3  | A0331700     | -            |
| A0811202   | Engineering Workshops         | 1  | -            | -            |
| A0812201   | Communication Skills & Ethics | 3  | A0161201     | -            |
| A0831201   | Engineering Drawing           | 2  | -            | -            |
| A0832101   | Differential Equations        | 3  | *A0111102    | -            |
| A0832102   | Engineering Statistics        | 3  | A0111101     | -            |
| A0833101   | Numerical Analysis            | 3  | A0112101     | -            |

**Community Service is a Mandatory Graduation Requirement (10 hours of service).**

**This prerequisite must be successfully passed before registering the course**

**Third: Major Requirements: (99) Credit Hours**

**A. Compulsory Major Requirements: (55) Credit Hours**

| Course No. | Course Title                         | CR | Prerequisite                       | Co-requisite |
|------------|--------------------------------------|----|------------------------------------|--------------|
| A0822501   | Electronics (1)                      | 3  | A0111202                           | -            |
| A0823101   | Probability and Random Processes     | 3  | A0832102                           | -            |
| A0823401   | Signals and Systems                  | 3  | A0111102                           | -            |
| A0823403   | Analog Communications                | 3  | *A0823401                          | -            |
| A0823404   | Analog Communications Lab.           | 1  | -                                  | A0823403     |
| A0823501   | Electronics (2)                      | 3  | *A0822501                          | -            |
| A0823502   | Electronics Lab.                     | 1  | -                                  | A0823501     |
| A0823503   | Digital Electronics                  | 3  | A0823501                           | -            |
| A0823504   | Digital Electronics Lab.             | 1  | -                                  | A0823503     |
| A0824301   | Fiber Optics Communications          | 3  | A0824401                           | -            |
| A0824302   | Wireless Communications              | 3  | A0824401                           | -            |
| A0824303   | Antennas and Wave Propagation        | 3  | A0872501                           | -            |
| A0824401   | Digital Communications               | 3  | *A0823403                          | -            |
| A0824402   | Digital Communications Lab.          | 1  | -                                  | A0824401     |
| A0824403   | Digital Signal Processing            | 3  | *A0823401                          | -            |
| A0824601   | Field Training                       | 3  | Passing 115 CR                     | -            |
| A0825401   | Communications and Computer Networks | 3  | A0823401                           | -            |
| A0825402   | Mobile Communication Systems         | 3  | A0824302                           | -            |
| A0825501   | Communications Electronics           | 3  | A0824401                           | -            |
| A0825502   | Optical Communication Electronics    | 3  | A0824301                           | -            |
| A0825601   | Graduation Project (1)               | 1  | Passing Field Training (*A0824601) | -            |
| A0825602   | Graduation Project (2)               | 2  | A0825601                           | -            |

**B. Ancillary Major Requirements: (35) Credit Hours**

| Course No. | Course Title                       | CR | Prerequisite | Co-requisite |
|------------|------------------------------------|----|--------------|--------------|
| A0812101   | Discrete Mathematics               | 3  | A0111101     | -            |
| A0812401   | Digital Logic Circuits             | 3  | A0111101     | -            |
| A0812402   | Digital Logic Circuits Lab.        | 1  | -            | A0812401     |
| A0813201   | Engineering Management and Economy | 3  | A0111101     | -            |
| A0814401   | Embedded Systems                   | 3  | A0812401     | -            |
| A0814402   | Embedded Systems Lab.              | 1  | -            | A0814401     |
| A0872301   | Electric Circuits (1)              | 3  | A0111202     | -            |
| A0872302   | Electric Circuits (2)              | 3  | *A0872301    | -            |
| A0872304   | Electric Circuits Lab.             | 1  | A0872301     | A0872302     |
| A0872501   | Electromagnetic                    | 3  | *A0111202    | -            |
| A0873501   | Machines and Electrical Power      | 3  | A0872302     | -            |
| A0873502   | Machines and Electrical Power Lab. | 1  | -            | A0873501     |
| A0874301   | Power Electronics                  | 3  | A0823501     | -            |
| A0874302   | Power Electronics Lab.             | 1  | -            | A0874301     |
| A0874501   | Control Systems                    | 3  | A0823401     | -            |

**C. Elective Major Requirements: (9) Credit Hours**

| Course No. | Course Title                               | CR | Prerequisite           | Co-requisite |
|------------|--|----|------------------------|--------------|
| A0815201   | Engineering Projects Management            | 3  | A0814401               | -            |
| A0824404   | Simulation for Electronics & Communication | 3  | A0823503               | -            |
| A0825301   | Advanced Communication Systems             | 3  | A0825401               | -            |
| A0825302   | Microwave Engineering                      | 3  | A0872501               | -            |
| A0825303   | Radar Engineering                          | 3  | A0824401               | -            |
| A0825403   | Information Theory and Coding              | 3  | A0824401               | -            |
| A0825603   | Selected Topics in Communications          | 3  | Dept. Council Approval | -            |
| A0825604   | Selected Topics in Electronics             | 3  | Dept. Council Approval | -            |
| A0875603   | Selected Topics in Electrical Engineering  | 3  | Dept. Council Approval | -            |

**Fourth: Remedial Requirements (to a student who has not passed the level exam)**

| Course No. | Course Title                | CR | Prerequisite |
|------------|-----------------------------|----|--------------|
| A0161100   | Arabic Language (Remedial)  | 3  | -            |
| A0161200   | English Language (Remedial) | 3  | -            |
| A0331700   | Computer Skills (Remedial)  | 3  | -            |