



First: University Requirements (Total 27 Credit Hours)

(15 Credit Hours)A. University Obligatory Requirements

| .Course no | Course name | Credit Hours | -Pre requisite | Mark |
|------------|-----------------------------|--------------|----------------|------|
| 0114101 | Arabic Language Skills (1) | 3 | 0114099 | |
| 0111100 | Military Science *** | 3 | ---- | |
| 0111101 | National Education | 3 | ---- | |
| 0130101 | English Language Skills (1) | 3 | 0130099 | |
| 0130102 | English Language Skills (2) | 3 | 0130101 | |
| 0111000 | Volunteer Community Service | Zero | ---- | |

*** is compulsory for Jordanian students and arbitrary for non Jordanians

B. The student chooses 12 Credit Hours from the following elective courses

| .Course no | Course name | Credit Hours | -Pre requisite | Mark |
|------------|--------------------------------------|--------------|----------------|------|
| 0111112 | Introduction To Psychology | 3 | ---- | |
| 0111133 | Human Vision & Civilization (1) | 3 | --- | |
| 0140111 | Language Skills (1) | 3 | ---- | |
| 0140112 | Language Skills (2) | 3 | --- | |
| 0240152 | Environmental Culture | 3 | --- | |
| 0330111 | Introduction to Project Management | 3 | --- | |
| 0420140 | Human Rights | 3 | --- | |
| 0420143 | Legal Culture | 3 | --- | |
| 0610230 | Entrepreneurship and Creativity | 3 | --- | |
| 0731102 | Social Networking Skills | 3 | --- | |
| 0780101 | Connectivity & Communications Skills | 3 | --- | |
| 0910102 | Health Education | 3 | --- | |

**** Each student is expected to pass an online test evaluating his proficiency in Arabic and English languages , in addition to assessing his computer driving skills. courses pre enrolling in more advanced courses**

(Total 21 Credit Hours)Second: Faculty requirements

(15 Credit Hours)A. Faculty compulsory requirement

| .Course no | Course name | Credit Hours | Pre-requisite | Mark |
|------------|--|--------------|---------------|------|
| 0250101 | Calculus (1) | 3 | ---- | |
| 0250231 | Introduction to Probability & Statistics | 3 | ---- | |
| 0211101 | General Physics (1) | 3 | ---- | |
| 0212101 | General Chemistry (1) | 3 | ---- | |
| 0240101 | General Biology (1) | 3 | ---- | |

B. Student choose 6 Credit hours from the following elective courses

| .Course no | Course name | Credit Hours | Pre-requisite | Mark |
|------------|-----------------------|--------------|---------------|------|
| 0211102 | General Physics (2) | 3 | 0211101 | |
| 0212103 | General Chemistry (2) | 3 | 0212101 | |
| 0250233 | Biostatistics | 3 | 0250231 | |
| 0750115 | C++ Programming | 3 | --- | |

Third: Major Requirements: 84 Credit Hours

A. Obligatory Requirements: 78 Credit Hours

| .Course no | Course name | Credit Hours | Pre-requisite | Mark |
|------------|---------------------------------|--------------|----------------------|------|
| 0250102 | Calculus (2) | 3 | 0250101 | |
| 0250202 | Calculus (3) | 3 | 0250102 | |
| 0250203 | Ordinary Differential Equations | 3 | 0250202 | |
| 0250232 | Probability Theory | 3 | 0250231 + 0250202 | |
| 0250241 | Linear Algebra (1) | 3 | 0250101 | |
| 0250251 | Set Theory | 3 | 0250102 | |
| 0250262 | Modern Euclidean (1) Geometry | 3 | 0250251 | |
| 0250302 | Calculus (4) | 3 | 0250202 | |
| 0250305 | Partial Differential Equations | 3 | 0250203 | |
| 0250311 | Real Analysis | 3 | 0250251 | |
| 0250312 | Complex Analysis | 3 | 0250311 | |
| 0250313 | Number Theory | 3 | 0250251 | |
| 0250332 | Mathematical Statistics | 3 | 0250232 | |
| 0250341 | Linear Algebra (2) | 3 | 0250241 | |

| .Course no | course name | credit hours | prerequisite | mark |
|------------|--------------------------------|--------------|--------------|------|
| 0250352 | Graph Theory and Combinatorics | 3 | 0250251 | |
| 0250342 | Abstract Algebra (1) | 3 | 0250251 | |
| 0250371 | Numerical Analysis | 3 | 0250203 | |
| 0250372 | * Computer Aided Math | 3 | 0250203 | |
| 0250373 | Linear Programming | 3 | 0250241 | |
| 0250381 | Problem Solving | 3 | 0250311 | |
| 0250411 | Real Analysis (2) | 3 | 0250311 | |
| 0250442 | Abstract Algebra (2) | 3 | 0250342 | |
| 0250465 | Topology | 3 | 0250311 | |
| 0250471 | Mathematical Modeling | 3 | 0250203 | |
| 0250481 | Teaching Methods Math | 3 | 0250262 | |
| 0250492 | Special Topics | 3 | 0250341 | |

B. Elective Requirements: 6 Credit Hours

| .Course no | Course name | Credit Hours | Pre-requisite | Mark |
|------------|-------------------------------|--------------|---------------------|------|
| 0250333 | Applied Probability | 3 | 0250232 | |
| 0250444 | Matrix Theory | 3 | 0250241 | |
| 0250453 | History of Math | 3 | 0250313+ 0250262 | |
| 0250467 | Modern Euclidean Geometry (2) | 3 | 0250262 | |
| 0250475 | Special Functions | 3 | 0250311 | |
| 0250476 | Game Theory | 3 | 0250241 | |

* Theoretical & Practical