



## I. University Requirements: 31 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: 14 credit hours

| Course No | Course Title                     | Credit Hours | Contact Hours |     | Prerequisite |
|-----------|----------------------------------|--------------|---------------|-----|--------------|
|           |                                  |              | Lecture       | Lab |              |
| 0900100   | Swimming                         | 0            | 0             | 2   | -            |
| 0900101   | Sports (1)                       | 1            | 0             | 3   | -            |
| 0900110   | Cultural Development (1)         | 1            | 0             | 2   | -            |
| 0900111   | Military Science*                | 3            | 3             | 0   | -            |
| 0900112   | Civic Education                  | 3            | 3             | 0   | -            |
| 0900120   | Arabic Communication Skills (1)  | 3            | 3             | 0   | 0900097**    |
| 0900130   | English Communication Skills (1) | 3            | 3             | 0   | 0900099**    |

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

\*\* Or passing the placement test.

## C. University Elective Course Requirements: 17 credit hours

### Humanities: 3-6 credit hours

| Course No | Course Title                                  | Credit Hours | Contact Hours |     | Prerequisite |
|-----------|-----------------------------------------------|--------------|---------------|-----|--------------|
|           |                                               |              | Lecture       | Lab |              |
| 0900113   | Interpersonal and Intercultural Communication | 3            | 3             | 0   | -            |
| 0900131   | English Communication Skills (2)              | 3            | 3             | 0   | 0900130      |
| 0900140   | Appreciation of Art                           | 3            | 3             | 0   | -            |
| 0900141   | Appreciation of Music                         | 3            | 3             | 0   | -            |

### Social and Economic Sciences: 3-6 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   | -            |
| 0900161   | Creativity and Innovation (1)    | 3            | 3             | 0   | -            |
| 0900162   | Creativity and Innovation (2)    | 3            | 3             | 0   | -            |

\*Compulsory for Business and Finance Students.

\*\*Not for Business and Finance Students.

### Science, Technology, Agriculture and Health: 3-6 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**    |
| 0900181   | Computer Skills (Art and Design) | 3            | 2             | 2   | 0900096**    |

\*Not for Information Technology Students.

\*\* Or passing the placement test.

### Two credit hours

| Course No | Course Title             | Credit Hours | Contact Hours |     | Prerequisite |
|-----------|--------------------------|--------------|---------------|-----|--------------|
|           |                          |              | Lecture       | Lab |              |
| 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      |

## II. Faculty Requirements: 21 Credit Hours

### Compulsory Requirements: 21 Credit Hours

| Course No | Course Title                        | Credit Hours | Contact Hours |      | Prerequisite |
|-----------|-------------------------------------|--------------|---------------|------|--------------|
|           |                                     |              | Lecture       | Lab. |              |
| 0203101   | Calculus (1)                        | 3            | 3             | 0    | -----        |
| 0203102   | Calculus (2)                        | 3            | 3             | 0    | 0203101      |
| 0204101   | General Physics (1)                 | 3            | 3             | 0    | -----        |
| 0204102   | General Physics (2)                 | 3            | 3             | 0    | 0204101      |
| 0401121   | Programming Fundamentals            | 3            | 2             | 2    | -----        |
| 0401151   | Introduction to Information Systems | 3            | 3             | 0    | -----        |
| 0401153   | Technology and Global Issues        | 3            | 3             | 0    | -----        |

## III. Department Requirements: 82 Credit Hours

### A. Compulsory Requirements: 70 Credit Hours

| Course No | Course Title                                 | Credit Hours | Contact Hours |      | Prerequisite        |
|-----------|----------------------------------------------|--------------|---------------|------|---------------------|
|           |                                              |              | Lecture       | Lab. |                     |
| 401111    | Discrete Structures                          | 3            | 3             | 0    | -                   |
| 401122    | Object Oriented Programming Language         | 3            | 2             | 2    | 401121              |
| 401211    | Theory of Computation                        | 3            | 3             | 0    | 401111              |
| 401212    | Data Structures                              | 3            | 3             | 0    | 401121              |
| 401223    | Advanced Object Oriented Programming and GUI | 3            | 3             | 0    | 401122              |
| 401224    | OO and GUI Laboratory                        | 1            | 0             | 2    | 401223*             |
| 401231    | Digital Logic Design                         | 3            | 3             | 0    | 401151              |
| 401241    | Networks and Data Communications             | 3            | 3             | 0    | 401151              |
| 401251    | Database Fundamentals                        | 3            | 2             | 2    | 401212              |
| 401313    | Principles of Computer Algorithms            | 3            | 3             | 0    | 401212              |
| 401314    | Fundamentals of Artificial Intelligence      | 3            | 3             | 0    | 401313              |
| 401315    | Principles of Computer Graphics              | 3            | 3             | 0    | 401111+401122       |
| 401321    | Web-Based Programming and Applications       | 3            | 2             | 2    | 401223              |
| 401324    | Programming Languages Concepts               | 3            | 3             | 0    | 401223              |
| 401331    | Computer Architecture                        | 3            | 3             | 0    | 401231              |
| 401332    | Operating Systems Concepts                   | 3            | 3             | 0    | 401331              |
| 401342    | Computer Security                            | 3            | 3             | 0    | 401241              |
| 401343    | Wireless Networks                            | 3            | 3             | 0    | 401241              |
| 401355    | System Analysis and Design                   | 3            | 3             | 0    | 401251              |
| 401423    | Computer Networking Programming              | 3            | 2             | 2    | 401241+401223       |
| 401451    | Software Engineering Concepts                | 3            | 3             | 0    | 401251+401355       |
| 401453    | Database Management Systems                  | 3            | 2             | 2    | 401251+401355       |
| 401491    | Graduation Project                           | 3            | --            | --   | Department Approval |
| 401492    | Practical Training                           | 3            | --            | --   | Department Approval |

### B. Electives Requirements: 6 Credit Hours

| Course No | Course Title                           | Credit Hours | Contact Hours |      | Prerequisite        |
|-----------|----------------------------------------|--------------|---------------|------|---------------------|
|           |                                        |              | Lecture       | Lab. |                     |
| 401318    | Genetic Algorithms and Neural Networks | 3            | 3             | 0    | 401314              |
| 401323    | Database Interface and Programming     | 3            | 2             | 2    | 401251              |
| 401333    | Introduction to Distributed Systems    | 3            | 3             | 0    | 401241              |
| 401433    | Compilers Design                       | 3            | 3             | 0    | 401211 + 401324     |
| 401436    | Parallel Processing                    | 3            | 3             | 0    | 401331              |
| 401447    | Advanced Computer Networks             | 3            | 3             | 0    | 401241              |
| 401454    | Special Topics in Computer Science     | 3            | 3             | 0    | Department Approval |
| 401456    | Data Warehousing and Data Mining       | 3            | 3             | 0    | 401453              |

### C. Ancillary Requirements: 6 Credit Hours

| Course No | Course Title               | Credit Hours | Contact Hours |      | Prerequisite |
|-----------|----------------------------|--------------|---------------|------|--------------|
|           |                            |              | Lecture       | Lab. |              |
| 203281    | Probability and Statistics | 3            | 3             | 0    | -            |
| 203381    | Numerical Analysis         | 3            | 3             | 0    | 203102       |

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