



جامعة كل العرب

Faculty of Arts and Science  
Study Plan for the Bachelor Program in Chemistry  
Academic Year 2021-2022  
Graduation Requirements: (132) Credit Hours

| I- University Requirements (24) Credit Hours |                                      |    |            |                 |
|--|--------------------------------------|----|------------|-----------------|
| A- Compulsory Courses (18) Credit Hours      |                                      |    |            |                 |
| Article No.                                  | Course Title                         | CH | PR         | Teaching Method |
| 100103                                       | Military Sciences*                   | 3  | -          | E               |
| 1401116                                      | Islamic Education                    | 3  | -          | E               |
| 1401123                                      | Communication skills (Arabic 1)**    | 3  | 1401099    | E               |
| 1401124                                      | Communication skills (English 1)**   | 3  | 1401098    | E               |
| 1401146                                      | Entrepreneurship and innovation      | 1  | concurrent | E               |
| 1401147                                      | Leadership and social accountability | 1  |            | E               |
| 1401148                                      | Life skills                          | 1  |            | E               |
| 1401150                                      | National Education *                 | 3  | -          | E               |

| B- Elective Courses (6) Credit Hours |   |   |         |   |
|--------------------------------------|---|---|---------|---|
| 501114                               | Palestinian & Contemp. Arab History     | 3 | -       | E |
| 1211110                              | Art Education                           | 3 | -       | E |
| 1401118                              | Ethics in Islam                         | 3 | -       | E |
| 1401126                              | Human Rights                            | 3 | -       | E |
| 1401127                              | Environmental Development               | 3 | -       | E |
| 1401130                              | Sports and Health                       | 3 | -       | E |
| 1401131                              | Introduction to sociology               | 3 | -       | E |
| 1401151                              | Campus Life Ethics                      | 3 | -       | E |
| 1401221                              | Foreign Languages                       | 3 | -       | E |
| 1401223                              | Communication skills (Arabic 2)         | 3 | 1401123 | E |
| 1401224                              | Communication skills (English 2)        | 3 | 1401124 | E |
| 1501127                              | Green Energy                            | 3 | -       | E |
| 1501128                              | Communication & Social Media Technology | 3 | -       | E |
| 1501154                              | Health Education                        | 3 | -       | E |
| 1501163                              | Introduction to the future              | 3 | -       | E |
| 1501164                              | Digital Skills                          | 3 | -       | E |

| II- Free Course (3) Credit Hours                                       |  |
|--|--|
| The student can choose any subject offered by the university faculties |  |

| III- Faculty Requirements (19) Credit Hours |                            |   |                  |   |
|---|----------------------------|---|------------------|---|
| 1501110                                     | Calculus 1                 | 3 | -                | F |
| 1501120                                     | General Physics 1          | 3 | -                | F |
| 1501121                                     | General Physics Lab 1      | 1 | 1501120 or sync. | F |
| 1501143                                     | General Biology 1          | 3 | -                | E |
| 1501165                                     | Computer Skills**          | 3 | 1501099          | F |
| 1501210                                     | Calculus 2                 | 3 | 1501110          | F |
| 1501212                                     | Probability and Statistics | 3 | -                | B |

| IV- Major Requirements (86) Credit Hours |  |    |                  |                 |  |
|--|--|----|------------------|-----------------|--|
| A- Compulsory Courses (68) Credit Hours  |  |    |                  |                 |  |
| Article No.                              | Course Title                                   | CH | PR               | Teaching Method |  |
| 1501130                                  | General Chemistry 1                            | 3  | -                | F               |  |
| 1501131                                  | General Chemistry Lab 1                        | 1  | 1501130 or sync. | F               |  |
| 1722102                                  | General chemistry 2                            | 3  | 1501130          | F               |  |
| 1722103                                  | General Chemistry lab 2                        | 1  | 1722102 or sync. | F               |  |
| 1722201                                  | Organic Chemistry 1                            | 3  | 1722102          | F               |  |
| 1722202                                  | Organic Chemistry lab1                         | 2  | 1722201 or sync. | F               |  |
| 1722203                                  | Analytical Chemistry                           | 3  | 1722102          | F               |  |
| 1722204                                  | Analytical Chemistry lab                       | 1  | 1722203 or sync. | F               |  |
| 1722210                                  | Physical chemistry 1                           | 3  | 1722102          | F               |  |
| 1722211                                  | Physical chemistry lab1                        | 2  | 1722210 or sync. | F               |  |
| 1722221                                  | Inorganic Chemistry 1                          | 3  | 1722102          | F               |  |
| 1722301                                  | Organic Chemistry 2                            | 3  | 1722201          | B               |  |
| 1722302                                  | Organic Chemistry lab2                         | 2  | 1722301 or sync. | F               |  |
| 1722310                                  | Physical chemistry 2                           | 3  | 1722210          | B               |  |
| 1722311                                  | Physical chemistry lab2                        | 1  | 1722310 or sync. | F               |  |
| 1722312                                  | Instrumental Analysis 1                        | 3  | 1722203          | B               |  |
| 1722313                                  | Instrumental Analysis 2                        | 3  | 1722312          | B               |  |
| 1722314                                  | Instrumental Analysis Lab                      | 1  | 1722312 or sync. | F               |  |
| 1722321                                  | Inorganic Chemistry 2                          | 3  | 1722221          | F               |  |
| 1722322                                  | Inorganic chemistry lab                        | 2  | 1722321 or sync. | F               |  |
| 1722410                                  | Physical chemistry 3                           | 3  | 1722310          | F               |  |
| 1722411                                  | Systematic identification of Organic Compounds | 3  | 1722301          | F               |  |
| 1722412                                  | Electrochemistry                               | 3  | 1722312          | B               |  |
| 1722420                                  | Industrial Chemistry                           | 3  | 1722301+1722221  | B               |  |
| 1722421                                  | Inorganic Chemistry 3                          | 3  | 1722321          | B               |  |
| 1722422                                  | Chemical of Biomolecules                       | 3  | 1722301          | B               |  |
| 1722423                                  | Research Seminar in Chemistry                  | 1  | Dept. Approval   | F               |  |
| 1722490                                  | Research Project in Chemistry                  | 3  | Dept. Approval   | F               |  |

| B- Elective Courses (12) Credit Hours |   |   |                  |   |
|---------------------------------------|---|---|------------------|---|
| 1722205                               | Computer Applications in Chemistry                | 3 | 1722102          | B |
| 1722315                               | Chemistry of Heterocyclic Compound                | 3 | 1722201          | B |
| 1722316                               | Natural Products chemistry                        | 3 | 1722201          | B |
| 1722317                               | Quality control                                   | 3 | 1722203          | B |
| 1722318                               | Environmental Chemistry                           | 3 | 1722203          | B |
| 1722319                               | Polymer Chemistry                                 | 3 | 1722422          | B |
| 1722332                               | Methods of teaching science                       | 3 | Dept. Approval   | B |
| 1722413                               | Organometallic chemistry                          | 3 | 1722321          | B |
| 1722415                               | Solid state chemistry                             | 3 | 1722410+1722421  | B |
| 1722424                               | Colloids and surface chemistry                    | 3 | 1722410          | B |
| 1722425                               | Biochemistry                                      | 3 | 1722422          | B |
| 1722426                               | Nanotechnology techniques                         | 3 | 1722310+ 1722321 | B |
| 1722427                               | Spectroscopic Identification Of Organic Compounds | 3 | 1722422          | B |

| V- Support Compulsory Courses from other departments (6) credit hours |                                  |   |         |   |
|---|----------------------------------|---|---------|---|
| 1501220   | General Physics 2                | 3 | 1501120 | F |
| 1721203   | Ordinary Differential Equations1 | 3 | 1501210 | F |

\*Non Jordanian students may study two other courses of the study plan instead of (Military Science) and (National Education).  
 \*\*All students are subject to the level exams in Arabic Language, English Language and Computer skills. Anyone who fails to succeed in any of these exams has to register in the Remedial Course (099) which will be considered out of their study plans.  
 \*\*\*The student must perform 10 hours of community service during his study period/ (0) credit hour.

\*\*\* E : ( Electronic).....B: (Blended).....F:(Face to Face)



AMMAN - JORDAN



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