



**Study plan(2005-2006)**

| Second semester |    |                                  |            | First semester  |    |  |            | Year                 |
|-----------------|----|----------------------------------|------------|-----------------|----|--|------------|----------------------|
| Pre-req.        | Cr | Course Name                      | Course No. | Pre-req.        | Cr | Course Name                              | Course No. |                      |
| ----            | 3  | Arabic language skills 1         | 110101     | ----            | 3  | English language skills 1                | 130101     | 1 <sup>st</sup> year |
| 130101          | 3  | English language skills 2        | 130102     | ----            | 3  | General Biology 1                        | 240101     |                      |
| ----            | 3  | Calculus 1                       | 210101     | ----            | 3  | General Chemistry 1                      | 212101     |                      |
| 240101          | 3  | General Biology 2                | 240107     | ----            | 1  | General Chemistry lab                    | 212102     |                      |
| 212101          | 3  | General Chemistry 2              | 212103     | ----            | 1  | General Biology lab                      | 240106     |                      |
| 710101          | 3  | Computer skills 2                | 710102     | ----            | 3  | Computer skills 1                        | 710101     |                      |
|                 |    |                                  |            | ----            | 3  | Civilization and human thoughts 1        | 111133     |                      |
| <b>18 Cr</b>    |    | <b>Total</b>                     |            | <b>17 Cr</b>    |    | <b>Total</b>                             |            |                      |
| ----            | 3  | Military Science                 | 111100     | -----           | 3  | Introduction to Probability & Statistics | 210231     | 2 <sup>nd</sup> year |
| ----            | 3  | General Physics                  | 211105     | 240107          | 3  | Microbiology                             | 240216     |                      |
| 240107          | 3  | Genetics                         | 240231     | 240216 or Con   | 1  | Microbiology lab                         | 240217     |                      |
| 240232 or Con   | 1  | Genetics lab                     | 240232     | 240107          | 3  | Cell Biology                             | 240233     |                      |
| 240107+130102   | 2  | Introduction to Biotechnology    | 240281     | 212103          | 3  | Analytical Chemistry                     | 212241     |                      |
| 212103          | 3  | Organic Chemistry                | 212243     | 212241 or Con   | 1  | Analytical Chemistry lab                 | 212242     |                      |
|                 |    |                                  |            | ----            | 3  | National Education                       | 111101     |                      |
|                 |    |                                  |            | 240107 or Con   | 1  | General Biology 2 lab                    | 240108     |                      |
| <b>15 Cr</b>    |    | <b>Total</b>                     |            | <b>18 Cr</b>    |    | <b>Total</b>                             |            |                      |
| 240231+240335   | 2  | Bioinformatics                   | 240462     | 240233          | 3  | Immunology                               | 240337     | 3 <sup>rd</sup> year |
| 240281          | 3  | Plant Biotechnology              | 240322     | 240337 or Con   | 1  | Immunology lab                           | 240338     |                      |
| 240216          | 3  | Environmental Biotechnology      | 240352     | 240231          | 2  | Human Genetics                           | 240234     |                      |
| 240386          | 3  | Animal Biotechnology             | 240471     | 240234          | 1  | Cytogenetics                             | 240335     |                      |
| 240471 or Con   | 1  | Animal tissue culture lab        | 240472     | 212243 + 240233 | 3  | Biochemistry 1                           | 240343     |                      |
| 240335 or Con   | 1  | Cytogenetics lab                 | 240336     | 240343 or Con   | 1  | Biochemistry 1 lab                       | 240344     |                      |
|                 | 3  | Elective course                  |            | 240233          | 3  | Molecular Biology                        | 240386     |                      |
|                 |    |                                  |            | 240368 or Con   | 1  | Molecular Biology lab                    | 240387     |                      |
| <b>16 Cr</b>    |    | <b>Total</b>                     |            | <b>15 Cr</b>    |    | <b>Total</b>                             |            |                      |
| 240343          | 3  | Pharmaceutical Biotechnology     | 240441     | 240216          | 3  | Microbial Biotechnology                  | 240417     | 4 <sup>th</sup> year |
| 90 Credit Hours | 1  | Ethics in Biotechnology          | 240491     | 240386          | 3  | Applied Molecular Biology                | 240484     |                      |
| 90 Credit Hours | 1  | Quality control & Lab management | 240490     | 240484 or Con   | 1  | Applied Molecular Biology lab            | 240485     |                      |
| Dept. Approval  | 3  | Research Project                 | 240499     |                 | 3  | Elective Course                          |            |                      |
|                 | 3  | Elective course                  |            | ----            | 3  | Fundamentals of Scientific Knowledge     | 210122     |                      |
|                 | 3  | University course                |            | 240322 or Con   | 1  | Plant Tissue culture lab                 | 240323     |                      |

|                |   |                |        |                 |   |                  |        |
|----------------|---|----------------|--------|-----------------|---|------------------|--------|
| Dept. Approval | 3 | Field Training | 240494 | 60 Credit Hours | 2 | Entrepreneurship | 240391 |
| <b>14 Cr</b>   |   | <b>▪ Total</b> |        | <b>16 Cr</b>    |   | <b>▪ Total</b>   |        |