

Guidance plan for students specializing in Medical Laboratory Science  
Plan Number 9

**First year**

| Second Semester |           |                                         |                 |
|-----------------|-----------|-----------------------------------------|-----------------|
| pre-requisite   | Hours     | Course                                  | Material Number |
| 0300141         | 3         | General Biological Science 1            | 0300142         |
| 0300131         | 3         | General Chemisrty 2                     | 0300132         |
| 0300132         | 1         | General Chemistry Laboratory 1          | 0300133         |
| 0200150         | 3         | Arabic Language 1                       | 0200102         |
| .....           | 3         | Islamic Culture and Contemporary Issues | 0200111         |
| .....           | 3         | Elective university requirement         | .....           |
|                 | <b>16</b> | <b>Total</b>                            |                 |

| First Semester |           |                                  |                 |
|----------------|-----------|----------------------------------|-----------------|
| pre-requisite  | Hours     | Course                           | Material Number |
| 0200151        | 3         | English Language 1               | 0200103         |
| .....          | 3         | General Chemisrty 1              | 0300131         |
| .....          | 3         | General Biological Science 1     | 0300141         |
| 0300141        | 1         | General Biological Science Lab 1 | 0300143         |
| .....          | 3         | National Education               | 0200104         |
| .....          | 3         | Elective university requirement  | .....           |
|                | <b>16</b> | <b>Total</b>                     |                 |

**Second year**

| Summer semester  |          |                                 |         |
|------------------|----------|---------------------------------|---------|
| 0300133, 0300132 | 3        | Biostatistics                   | 0701285 |
| .....            | 3        | Organic Chemistry               | 0300136 |
|                  | 3        | Elective university requirement | .....   |
|                  | <b>9</b> | <b>Total</b>                    |         |

| Second Semester |           |                                 |                 |
|-----------------|-----------|---------------------------------|-----------------|
| pre-requisite   | Hours     | Course                          | Material Number |
| 0300142         | 3         | Histology                       | 0701227         |
| 0300141         | 3         | Biostatistics                   | 0701285         |
| 0300141         | 3         | Biochemistry                    | 0701314         |
| .....           | 3         | Elective university requirement | .....           |
| 0300141         | 3         | Human Physiology                | 0701364         |
| 0300141         | <b>3</b>  | Quality Assurance               | 0701411         |
|                 | <b>18</b> | <b>Total</b>                    |                 |

| First Semester  |           |                                |                 |
|-----------------|-----------|--------------------------------|-----------------|
| pre-requisite   | Hours     | Course                         | Material Number |
| 0300132,0300133 | 3         | Analytical Chemistry 1         | 0300135         |
| 0300141         | 2         | General microbiology           | 0701242         |
| 0701242         | 1         | General microbiology practicum | 0701243         |
| 0300141         | 3         | Basic Human Anatomy            | 0701262         |
| 0701262         | 1         | Basic Human Anatomy Laboratory | 0701263         |
| .....           | 3         | Department Elective Course     | .....           |
| .....           | 3         | Military Science               | 0200110         |
|                 | <b>16</b> | <b>Total</b>                   |                 |

| Summer semester |          |                                |                 |
|-----------------|----------|--------------------------------|-----------------|
| pre-requisite   | Hours    | Course                         | Material Number |
| .....           | 3        | Department Elective Course     | .....           |
| .....           | 3        | University free elective topic | .....           |
| 0701227         | 3        | Pathophysiology                | 0701324         |
|                 | <b>9</b> | <b>Total</b>                   |                 |

### Third year

| Second Semester |           |                                  |                 |
|-----------------|-----------|----------------------------------|-----------------|
| pre-requisite   | Hours     | Course                           | Material Number |
| 0701326         | 2         | Hematology 2                     | 0701430         |
| 0701444         | 2         | Blood bank                       | 0701422         |
| 0701422         | 1         | Blood bank practicum             | 0701423         |
| 0300142         | 2         | Molecular cell biology           | 0701328         |
| 0701328         | 1         | Molecular cell biology practicum | 0701329         |
| 0701330         | 2         | Clinical chemistry 2             | 0701420         |
| 0701420         | 1         | Clinical chemistry practicum 2   | 0701421         |
| 0701364         | 3         | Endocrinology                    | 0701469         |
| 0701469         | 1         | Endocrinology practicum          | 0701468         |
| 0300142         | 3         | Clinical immunology              | 0701444         |
| 0701444         | 1         | Clinical immunology practicum    | 0701448         |
|                 | <b>16</b> | <b>Total</b>                     |                 |

| First Semester |           |                                        |                 |
|----------------|-----------|----------------------------------------|-----------------|
| pre-requisite  | Hours     | Course                                 | Material Number |
| 0701242        | 3         | Diagnostic microbiology                | 0701440         |
| 0701440        | 1         | Diagnostic microbiology practicum      | 0701441         |
| 0701227        | 2         | Pathological microtechniques           | 0701332         |
| 0701333        | 1         | Pathological microtechniques practicum | 0701333         |
| 0300142        | 2         | Hematology 1                           | 0701326         |
| 0701326        | 1         | Hematology practicum 1                 | 0701327         |
| 0300142        | 2         | Medical parasitology                   | 0701360         |
| 0701360        | 1         | Medical parasitology practicum         | 0701362         |
| 0701314        | 2         | Clinical chemistry 1                   | 0701330         |
| 0701330        | 1         | Clinical chemistry 1 practicum         | 0701331         |
|                | <b>16</b> | <b>Total</b>                           |                 |

| Summer semester |          |                            |                 |
|-----------------|----------|----------------------------|-----------------|
| pre-requisite   | Hours    | Course                     | Material Number |
| 0701242         | 3        | Medical virology           | 0701350         |
| .....           | 3        | Department Elective Course | .....           |
| 0300141         | 2        | Instrumental analysis      | 0701325         |
|                 | <b>8</b> | <b>Total</b>               |                 |

### Fourth year

| First Semester        |           |                                                         |                 |
|-----------------------|-----------|---------------------------------------------------------|-----------------|
| pre-requisite         | Hours     | Course                                                  | Material Number |
| Department's approval | 3         | Training in hematology and Immunology                   | 0701497         |
| Department's approval | 3         | Training in biochemistry and Clinical chemistry         | 0701498         |
| Department's approval | 3         | Training in this histology microtechnique and pathology | 0701492         |
| Department's approval | 3         | Training in medical Microbiology                        | 0701493         |
|                       | <b>12</b> | <b>Total</b>                                            |                 |