



**Biomedical Science (BMED)**

**First Year**

**Fall Semester**

| Code     | Title                           | Credits | Prerequisites               | Corequisites |
|----------|---------------------------------|---------|-----------------------------|--------------|
| ENGL201  | Composition and Research Skills | 3       | ENGL151                     |              |
| BIOL200  | General Biology I               | 3       | ENGL051 - ENGL101 - BIOL160 | BIOL200L     |
| CHEM200  | General Chemistry               | 3       | ENGL101 - CHEM160           | CHEM200L     |
| CHEM200L | General Chemistry Lab           | 1       | ENGL101 - CHEM160           | CHEM200      |
| ARAB200  | Arabic Language and Literature  | 3       |                             |              |
| CSCI200  | Introduction to Computers       | 3       | ENGL051                     |              |
| BIOL200L | General Biology I Lab           | 1       | ENGL051 - ENGL101           | BIOL200      |
| Total    |                                 | 17      |                             |              |

**Spring Semester**

| Code     | Title                                       | Credits | Prerequisites               | Corequisites |
|----------|---|---------|-----------------------------|--------------|
| CHEM255  | Basic Organic Chemistry                     | 3       | ENGL051 - ENGL101 - CHEM200 | CHEM255L     |
| CHEM255L | Basic Organic Chemistry Lab                 | 1       | ENGL051 - ENGL101 - CHEM200 | CHEM255      |
| BIOL360  | Human Physiology & Anatomy                  | 4       | BIOL200                     | BIOL360L     |
| CULT200  | Introduction to Arab - Islamic Civilization | 3       |                             |              |
| BIOL360L | Human Physiology & Anatomy Lab              | 1       |                             | BIOL360      |
| BIOL275L | Cell and Molecular Biology Lab              | 1       | BIOL200                     | BIOL275      |
| BIOL275  | Cell and Molecular Biology                  | 3       | BIOL200                     | BIOL275L     |
| Total    |   | 16      |                             |              |

**Summer Semester**

| Code    | Title                | Credits | Prerequisites | Corequisites |
|---------|----------------------|---------|---------------|--------------|
| ENGL251 | Communication Skills | 3       | ENGL201       |              |
| BMED205 | Biophysics           | 3       | BIOL200       |              |
| Total   |                      | 6       |               |              |

**Second Year**

**Fall Semester**

| Code     | Title                | Credits | Prerequisites               | Corequisites |
|----------|----------------------|---------|-----------------------------|--------------|
| BIOL365  | Genetics             | 3       | BIOL275                     |              |
| BIOL385L | Microbiology Lab     | 1       | ENGL051 - ENGL101           | BIOL385      |
| BIOL385  | Microbiology         | 3       | ENGL051 - ENGL101 - BIOL200 | BIOL385L     |
| BIOC310  | Medical Biochemistry | 4       | CHEM255 - BIOL200           |              |
| BMED360L | Hematology LAB       | 1       |                             | BMED360      |
| BMED420  | Basic Life Support   | 1       | BIOL360                     |              |
| BMED360  | Hematology           | 3       | BIOL360                     | BMED360L     |
| Total    |                      | 16      |                             |              |

**Spring Semester**

| Code     | Title            | Credits | Prerequisites | Corequisites |
|----------|------------------|---------|---------------|--------------|
|          | Elective         | 3       |               |              |
| BMED370L | Parasitology Lab | 1       |               | BMED370      |
| BMED370  | Parasitology     | 2       | BIOL385       | BMED370L     |

|          |                                    |    |                   |          |
|----------|------------------------------------|----|-------------------|----------|
| BMED445  | Pathophysiology                    | 3  | BIOL275 - BIOL360 | BMED445L |
| BMED445L | Clinical Case Conference           | 1  | BIOL360           | BMED445  |
| BMED485  | Clinical Assessment and Techniques | 3  | BIOL385           | BMED445  |
| BIOL425  | Immunology                         | 3  | BIOL275 - BIOL360 |          |
| Total    |                                    | 16 |                   |          |

### Summer Semester

| Code    | Title                          | Credits | Prerequisites               | Corequisites |
|---------|--------------------------------|---------|-----------------------------|--------------|
| BMED470 | Clinical Mycology and Virology | 2       | BIOL385                     |              |
| MATH245 | Statistics for Health Sciences | 3       | ENGL051 - ENGL101 - ENGL151 |              |
| Total   |                                | 5       |                             |              |

## Third Year

### Fall Semester

| Code     | Title                           | Credits | Prerequisites                         | Corequisites |
|----------|---------------------------------|---------|---------------------------------------|--------------|
| BMED425  | Serology and Blood Banking      | 3       | BMED360                               | BMED425L     |
| BMED425L | Serology and Blood Banking Lab  | 1       |                                       | BMED425      |
| BMED430  | Medical Microbiology            | 3       | BIOL385                               | BMED430L     |
| BMED450L | Clinical Chemistry Lab          | 1       |                                       | BMED450      |
| BMED450  | Clinical Chemistry              | 3       | BIOC310                               | BMED450L     |
| MEDL399  | Medical Laboratory Internship I | 3       | BMED485 - BMED370 - BMED450 - BMED360 |              |
| BMED430L | Medical Microbiology Lab        | 1       |                                       | BMED430      |
| Total    |                                 | 15      |                                       |              |

### Spring Semester

| Code    | Title   | Credits | Prerequisites      | Corequisites |
|---------|---|---------|--------------------|--------------|
| BMED460 | Histopathology                                    | 3       | BMED445            |              |
| MEDL499 | Medical Laboratory Internship II                  | 3       | MEDL399 - BMED425L |              |
| BMED475 | Clinical Hematology and Hemostasis                | 2       | BMED360            |              |
|         | Elective  | 3       |                    |              |
| BMED390 | Medical Lab Management and Professional Ethics    | 1       |                    | BMED380      |
| BMED380 | Introduction to Quality Control and Accreditation | 2       | MEDL399            | BMED390      |
| Total   |   | 14      |                    |              |

## Major Elective Courses

| Code    | Title                                | Credits | Prerequisites     | Corequisites |
|---------|--------------------------------------|---------|-------------------|--------------|
| BIOL415 | Endocrinology                        | 3       | BIOC310 - BIOL360 |              |
| BMED435 | Carcinogenesis and Oncology          | 3       | BIOL275           |              |
| BMED440 | criminology and forensic science     | 3       | BMED445 - BIOL365 |              |
| BMED465 | Modern Topics In Biomedical Sciences | 3       | BMED445 - BIOL365 |              |