



**Bachelor of Science in Biomedical Science (BMED)**

**Major Electives**

| Code  | Title    | Credits | Prerequisites | Corequisites |
|-------|----------|---------|---------------|--------------|
|       | Elective | 3       |               |              |
| Total |          | 3       |               |              |

**Core Requirements**

| Code     | Title                          | Credits | Prerequisites               | Corequisites |
|----------|--------------------------------|---------|-----------------------------|--------------|
| BIOC310  | Medical Biochemistry           | 4       | CHEM255 - BIOL200           |              |
| BIOL200  | General Biology I              | 3       | ENGL051 - ENGL101 - BIOL160 | BIOL200L     |
| BIOL200L | General Biology I Lab          | 1       | ENGL051 - ENGL101           | BIOL200      |
| BIOL275  | Cell and Molecular Biology     | 3       | BIOL200                     | BIOL275L     |
| BIOL275L | Cell and Molecular Biology Lab | 1       | BIOL200                     | BIOL275      |
| BIOL360  | Human Physiology & Anatomy     | 4       | BIOL200                     | BIOL360L     |
| BIOL360L | Human Physiology & Anatomy Lab | 1       |                             | BIOL360      |
| BIOL365  | Genetics                       | 3       | BIOL275                     |              |
| BIOL385  | Microbiology                   | 3       | ENGL051 - ENGL101 - BIOL200 | BIOL385L     |
| BIOL385L | Microbiology Lab               | 1       | ENGL051 - ENGL101           | BIOL385      |
| BIOL425  | Immunology                     | 3       | BIOL275 - BIOL360           |              |
| BMED205  | Biophysics                     | 3       | BIOL200                     |              |
| CHEM200  | General Chemistry              | 3       | ENGL101 - CHEM160           | CHEM200L     |
| CHEM200L | General Chemistry Lab          | 1       | ENGL101 - CHEM160           | CHEM200      |
| CHEM255  | Basic Organic Chemistry        | 3       | ENGL051 - ENGL101 - CHEM200 | CHEM255L     |
| CHEM255L | Basic Organic Chemistry Lab    | 1       | ENGL051 - ENGL101 - CHEM200 | CHEM255      |
| MATH245  | Statistics for Health Sciences | 3       | ENGL051 - ENGL101 - ENGL151 |              |
| Total    |                                | 41      |                             |              |

**Major Requirements**

| Code     | Title   | Credits | Prerequisites     | Corequisites       |
|----------|---|---------|-------------------|--------------------|
| BMED360  | Hematology  | 3       | BIOL360           | BMED360L           |
| BMED360L | Hematology LAB                                    | 1       |                   | BMED360            |
| BMED370  | Parasitology                                      | 2       | BIOL385           | BMED370L           |
| BMED370L | Parasitology Lab                                  | 1       |                   | BMED370            |
| BMED380  | Introduction to Quality Control and Accreditation | 2       | MEDL399           | BMED390            |
| BMED390  | Medical Lab Management and Professional Ethics    | 1       |                   | BMED380            |
| BMED420  | Basic Life Support                                | 1       | BIOL360           |                    |
| BMED425  | Serology and Blood Banking                        | 3       | BIOL425 - BMED360 | BMED425L           |
| BMED425L | Serology and Blood Banking Lab                    | 1       |                   | BMED425            |
| BMED430  | Medical Microbiology                              | 3       | BIOL385           | BMED430L           |
| BMED430L | Medical Microbiology Lab                          | 1       |                   | BMED430            |
| BMED445  | Pathophysiology                                   | 3       | BIOL360           | BIOL275 - BMED445L |
| BMED445L | Clinical Case Conference                          | 1       | BIOL360           | BMED445            |
| BMED450  | Clinical Chemistry                                | 3       | BIOC310           | BMED450L           |

|          |                                    |    |  |         |
|----------|------------------------------------|----|--|---------|
| BMED450L | Clinical Chemistry Lab             | 1  |  | BMED450 |
| BMED460  | Histopathology                     | 3  | BMED445                                  |         |
| BMED470  | Clinical Mycology and Virology     | 2  | BIOL385                                  |         |
| BMED475  | Clinical Hematology and Hemostasis | 2  | BMED360                                  |         |
| BMED485  | Clinical Assessment and Techniques | 3  | BIOL385                                  | BMED445 |
| MEDL399  | Medical Laboratory Internship I    | 3  | BMED485 - BMED370 -<br>BMED450 - BMED360 |         |
| MEDL499  | Medical Laboratory Internship II   | 3  | MEDL399 - BMED425L                       |         |
| Total    |                                    | 43 |  |         |

### General Education Requirements

| Code    | Title                                       | Credits | Prerequisites | Corequisites |
|---------|---|---------|---------------|--------------|
| ARAB200 | Arabic Language and Literature              | 3       |               |              |
| CSCI200 | Introduction to Computers                   | 3       | ENGL051       |              |
| CULT200 | Introduction to Arab - Islamic Civilization | 3       |               |              |
| ENGL201 | Composition and Research Skills             | 3       | ENGL151       |              |
| ENGL251 | Communication Skills                        | 3       | ENGL201       |              |
| Total   |   | 15      |               |              |

### General Education Electives

| Code  | Title    | Credits | Prerequisites | Corequisites |
|-------|----------|---------|---------------|--------------|
|       | Elective | 3       |               |              |
| Total |          | 3       |               |              |

### 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 |              |