

Bachelor of Science in Biomedical Science

Study Plan (Effective Spring 21-2.

Total Credit Hours 131

First Year (Freshman)

Semester I (FALL)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|----------------------------------|-----------|--|
| ARL 101 (A) | Communication Skills in Arabic I | 3 | No Prerequisite |
| FWS100 | Academic Skills for Success | 3 | No Prerequisite |
| ENG 200 | English II | 3 | EPT or average score of IELTS 6 or EmSAT average score of 1400 + FWS100(E) FWS100(E) as co-req if placed in ENG200 directly |
| STT 100 | General Statistics | 3 | No Prerequisite |
| CHE 205 | General Chemistry | 3 | (Co)ENG 102/ENG 200 + (Co)FWS100 |
| CHE201 L | General Chemistry Lab | 1 | Co-Req CHE205 |
| <i>Total Credit Hours</i> | | 16 | |

Semester II (SPRING)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|-------------------------------|-----------|----------------------------------|
| MTG100 | Math for life | 3 | No Prerequisite |
| ISL 100 (A) | Islamic Culture | 3 | No Prerequisite |
| BIO 205 | General Biology | 3 | (Co)ENG 102/ENG 200 + (Co)FWS100 |
| BIO 205 L | General Biology Lab | 1 | BIO 205 (Pre / Co-req) |
| PBH101 | Introduction to Public Health | 3 | Co ENG102/ENG200 + (Co)FWS100 |
| BMS 23110A | Protein Structure & Function | 3 | CHE 205 |
| <i>Total Credit Hours</i> | | 16 | |

Second Year (Sophomore)

Semester III (FALL)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|-------------------------------|-----------|-----------------|
| BMS 23110B | Protein Activity & Regulation | 3 | BMS 23110A |
| BME 380 | Human Biology I | 3 | BIO 205 |
| BMS 34010A | Biotechniques | 3 | BIO205 & CHE205 |
| PBH 405 | Chronic & Infectious Disease | 3 | BIO 205 |
| BMS 34010B | Quantitative Analysis | 3 | BIO 205 |
| BMS 23110C | Enzymology | 3 | BMS 23110A |
| <i>Total Credit Hours</i> | | 18 | |

Semester IV (SPRING)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|-------------------------|-----------|--|
| BMS 3470B | Clinical Biochemistry I | 3 | BMS 34010A |
| FWS 205 | UAE and GCC Society | 3 | ENG102+FWS100(E) or FWS100(E) (Co) if placed in ENG200 |
| BME 381 | Human Biology II | 3 | BME 380 |
| BMS 3470A | Clinical Microbiology | 3 | PBH405 |
| BMS 23010B | Gene Expression | 3 | BMS 34010A |
| BMS 34110B | Metabolic Disease I | 3 | BMS 23110C |
| <i>Total Credit Hours</i> | | 18 | |

Summer Semester

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|--------------------------------|----------|----------------------|
| BMS 3401 | Biomedical Science Placement 1 | 3 | Completed 60 credits |
| <i>Total Credit Hours</i> | | 3 | |

Third Year (Junior)

Semester V (FALL)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|---|-----------|----------------------|
| BMS 301 | Systematic and Cellular Pathology | 3 | BME 381 |
| BMS 44110B | Metabolic Disease II | 3 | BMS 34110B |
| BMS 23140A | Metabolism & Immune Cell Function | 3 | BMS 34110B |
| BMS 23010C | Molecular Genetic & Molecular Processes | 3 | BMS 23010B |
| BMS 302 | Professional Practice Skills | 3 | BMS 3401 |
| FWS305 | Technical Communication for the Workplace | 3 | ENG 200 + 45 credits |
| <i>Total Credit Hours</i> | | 18 | |

Semester VI (SPRING)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|---|-----------|---------------------|
| BMS 34210A | Immunology I | 3 | BMS 23140A |
| FWS 310 | Fundamentals of Innovation and Entrepreneurship | 3 | ENG 200 +60 Credits |
| BMS 4470B | Haematology I | 3 | BMS23010C |
| BMS 34130A | Cancer Biology I | 3 | BMS 34210A |
| BMS 4470A | Histopathology | 3 | BMS 301 |
| BMS 400 | Clinical Laboratory Management | 3 | BMS 302 |
| <i>Total Credit Hours</i> | | 18 | |

Summer Semester

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|--------------------------------|----------|----------------------|
| BMS 4401 | Biomedical Science Placement 2 | 3 | Completed 90 credits |
| <i>Total Credit Hours</i> | | 3 | |

Fourth Year (Senior)

Semester VII (FALL)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|--------------------------------------|-----------|-----------------|
| BMS 44910A | Biomedical Science Research Poster | 1 | BMS 4401 |
| BMS 44910B | Biomedical Science Oral Presentation | 2 | BMS 4401 |
| BMS 44210A | Immunology II | 3 | BMS 34210A |
| BMS 401 | Clinical Biochemistry II | 3 | BMS 400 |
| BMS 44130A | Cancer Biology II | 3 | BMS 34130A |
| <i>Total Credit Hours</i> | | 12 | |

Semester VIII (SPRING)

| Code | Title | Crh | Prerequisite(s) |
|---------------------------|------------------------------------|----------|-----------------|
| BMS 44910C | Biomedical Science Research Report | 3 | BMS 44910B |
| BMS 34010C | Bioinformatics | 3 | BMS 4401 |
| BMS 402 | Haematology II | 3 | BMS 4470B |
| <i>Total Credit Hours</i> | | 9 | |