

Bachelor of Science in Biomedical Science Study Plan (Effective Fall 22-23)

Total Credits Hours: 131

First Year (Freshman)

Semester I (FALL)

Code	Title	Crh	Prerequisite(s)
ARL 101 (A)	Communication Skills in Arabic I	3	No Prerequisite
FWS 100	Academic Skills for Success	3	No Prerequisite
ENG 200	English II	3	IELTS average score of 6 or EMSAT average score of 1400 or passing grade in ENG 102 R + (FWS100(E)/ USS001 (P) as co-requisite if placed in ENG200)
STT 100	General Statistics	3	No Prerequisite
CHE 205	General Chemistry	3	(Co)ENG 102 (R) /ENG 200
CHE 201 L	General Chemistry Lab	1	Co-Req CHE205

Total Credit Hours **16**

Semester II (SPRING)

Code	Title	Crh	Prerequisite(s)
MTG 100	Math for life	3	No Prerequisite
ISL 100 (A)	Islamic Culture	3	No Prerequisite
BIO 205	General Biology	3	(Co)ENG 102 (R) /ENG 200
BIO 205 L	General Biology Lab	1	BIO 205 (Pre / Co-req)
PBH 101	Introduction to Public Health	3	(Co)ENG 102 (R) /ENG 200 + (Co) FWS100
BMS 23110A	Protein Structure & Function	3	CHE 205

Total Credit Hours **16**

Second Year (Sophomore)

Semester III (FALL)

Code	Title	Crh	Prerequisite(s)
BMS 23110B	Protein Activity & Regulation	3	BMS 23110A
BMS 23110C	Enzymology	3	BMS 23110A
BMS 34010A	Biotechniques	3	BIO205 & CHE205
BMS 23010B	Gene Expression	3	Co - Req of BMS 34010A
BMS 34010B	Quantitative Analysis	3	BIO 205
BME 380	Human Biology I	3	BIO 205

Total Credit Hours **18**

Semester IV (SPRING)

Code	Title	Crh	Prerequisite(s)
FWS 205	UAE and GCC Society	3	ENG102 (R) & FWS100 (E)/ USS001 (P) as pre-requisite + FWS100(E)/ USS001 (P) as co-requisite if students enter to ENG200 course directly
BMS 3470B	Clinical Biochemistry I	3	BMS 23110B
BMS 34110B	Metabolic Disease I	3	BMS 23110C
BME 381	Human Biology II	3	BME 380
BMS 3470A	Basic Medical Microbiology	3	Co-req PBH405
PBH 405	Chronic & Infectious Disease	3	BIO 205

Total Credit Hours **18**

Summer Semester

Code	Title	Crh	Prerequisite(s)
BMS 3401	Biomedical Science Placement 1	3	Completed 60 credits

Third Year (Junior)

Semester V (FALL)

Code	Title	Crh	Prerequisite(s)
HSC 205	Biostatistics	3	STT100
BMS 23010C	Molecular Genetic & Molecular Processes	3	BMS 23010B
BMS 302	Professional Practice Skills	3	BMS 34010A
BMS 301	Systematic and Cellular Pathology	3	BME 381
BMS 44110B	Metabolic Disease II	3	BMS 34110B
FWS305	Technical Communication for the Workplace	3	ENG200 + Completion of 45 Chrs

Total Credit Hours **18**

Semester VI (SPRING)

Code	Title	Crh	Prerequisite(s)
FWS 310	Fundamentals of Innovation and Entrepreneursh	3	ENG 200 + Completion of 60 Credits
BMS 34210A	Immunology I	3	BMS 23010C
BMS 34130A	Cancer Biology I	3	BMS 23010C
BMS 4470A	Histopathology	3	BMS 301
BMS 4470B	Haematology I	3	BMS 23010C
BMS 400	Clinical Laboratory Management	3	BMS 302

Total Credit Hours **18**

Summer Semester

Code	Title	Crh	Prerequisite(s)
BMS 4401	Biomedical Science Placement 2	3	Completed 90 credits

Fourth Year (Senior)

Semester VII (FALL)

Code	Title	Crh	Prerequisite(s)
HSC 410	Healthcare Research Methodology	3	Completion of 80 credits + HSC 205
BMS 44210A	Immunology II	3	BMS 34210A
BMS 401	Clinical Biochemistry II	3	BMS 400
BMS 44130A	Cancer Biology II	3	BMS 34130A

Total Credit Hours **12**

Semester VIII (SPRING)

Code	Title	Crh	Prerequisite(s)
BMS 44911	Biomedical Science Research Report	3	HSC 410
BMS 34010C	Bioinformatics	3	BMS 23010C
BMS 402	Haematology II	3	BMS 4470B

Total Credit Hours **9**

Important Notes:

All major courses are offered in their designated semesters as stated on this study plan.

Do not delay your general education courses to your last year.