

Bachelor of Science in Biomedical Science Study Plan (Effective Spring 19-20)

Total Credit Hours 131

First Year (Freshman)

**Semester I
(FALL)**

Code	Title	Crh	Prerequisite(s)
ARL 100 (A)	Communication Skills in Arabic I	3	No Prerequisite
FWS100	Academic Skills for Success	3	No Prerequisite
ENG 200	English II	3	Pre –Requisite: EPT/ or Passing grade in ENG102 + FWS100(E) (FWS100(E) as co-requisite if placed in ENG200)
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	3	BMS 34010A
FWS 205	UAE and GCC Society	3	ENG102 +FWS100E or co-req FWS100E 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

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
<i>Total Credit Hours</i>		15	

Semester VI (SPRING)

Code	Title	Crh	Prerequisite(s)
BMS 34210A	Immunology I	3	BMS 23140A
FWS 310	Fundamentals of Innovation and Entrepreneurshi	3	ENG 200 +60 Credits
BMS 4470B	Haematology I	3	BMS23010C
FWS305	Technical Communication for the Workplace	3	ENG 200 + 45 credits
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

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 34010C	Bioinformatics	3	BMS 4401
BMS 34130A	Cancer Biology I	3	BMS 34210A
<i>Total Credit Hours</i>		15	

Semester VIII (SPRING)

Code	Title	Crh	Prerequisite(s)
BMS 44910C	Biomedical Science Research Report	3	BMS 44910B
BMS 44130A	Cancer Biology II	3	BMS 34130A
BMS 402	Haematology II	3	BMS 4470B
<i>Total Credit Hours</i>		9	