Bachelor of Science in Molecular & Medical Genetics Study Plan (Effective Fall 22-23)

First Year (Freshman)

Total Credits Hours: 131

nester		

	Jenester (TALL)					
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			
CHF 201 I	General Chemistry Lah	1	Co-Reg CHE205			

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	

Total Credit Hours

16

Second Year (Sophomore)

Semester	III	(FALL
----------	-----	-------

	ouncote: in (1712)				
Code	Title	Crh	Prerequisite(s)		
BMS 23110B	Protein Activity & Regulation	3	BMS 23110A		
BMS 23010B	Gene Expression	3	Co - Req of BMS 34010A		
BMS 34010A	Biotechniques	3	BIO205 & CHE205		
BMS 23110C	Enzymology	3	BMS 23110A		
HSC 205	Biostatistics	3	STT100		
HMG 380	Human Anatomy and Physiology I	3	BIO 205		

Semester IV (SPRING)

Code	Title	Crh	Prerequisite(s)
BMS 3470B	Clinical Biochemistry I	3	BMS 23110B
BMS 34110B	Metabolic Disease I	3	BMS 23110C
HSC 210	Epidemiology and Population Health	3	HSC 205
HMG 381	Human Anatomy and Physiology II	3	HMG 380
BMS 23010A	Genome Biology	3	BMS 23010B
HMG 35110B	Principles of Medical Genetics	3	BMS 23010B
<u> </u>	Total Credit Hours	18	<u> </u>

Total Credit Hours

18

Third Year (Junior)

Cam	nester	 /EALL

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 34010B	Quantitative Analysis	3	BIO 205
BMS 23010C	Molecular Genetic & Molecular Processes	3	BMS 23010B
BMS 302	Professional Practice Skills	3	BMS 34010A
HMG 399	Epidemiology and Public Health Genetics	3	HSC 210
-	=		•

Code	Title	Crh	Prerequisite(s)
FWS 305	Technical Communication for the workplace	3	ENG200 + Completion of 45 Credits
FWS 310	Fundamentals of Innovation and Entrepreneurship	3	ENG 200 + 60 Credits
BMS 34210A	Immunology I	3	BMS 23010C
BMS 34130A	Cancer Biology I	3	BMS 23010C
BMS 34110A	Neurobiology I	3	HMG 381
BMS 34120	Human and Evolutionary Genetics	3	HMG 35110B

Total Credit Hours

15

Total Credit Hours

18

Winter Semester (After Semester V)				
Code Title Crh Prerequisite(s)				
MMG 3401	Molecular and Medical Genetics Placement 1	3	Completion of 70 credits	

	Winter Semester (After Semester VII)				
Code	Title	Crh	Prerequisite(s)		
MMG 4401	Molecular and Medical Genetics Placement 2	3	Completion of 102 credits		

Fourth Year (Senior)

Semester VII (FALL)

Code	Title	Crh	Prerequisite(s)
HSC 410	Healthcare Research Methodology	3	Completion of 80 credits + HSC 205
HND 228	Introduction to Counselling Theory and Skills	3	ENG200 + Completion of 45 credits
HMG 44110A	Inherited Neurological Disorders	3	BMS 34110A
HMG 442	Inherited Immunodeficiencies	3	BMS 34210A
			·

Semester VIII (SPRING)

	Semester viii (Sr Kilvo)				
	Code	Title	Crh	Prerequisite(s)	
	HMG 44911	Human Genetics Research Report	3	HSC 410	
	BMS 34010C	Bioinformatics	3	BMS 23010C	
	HMG 2301	Medical Genetic Counselling	3	HMG 2201	
	HMG 44130A	Inherited Cancer Genetics	3	BMS 34130A & HMG442	

Total Credit Hours

12

Total Credit Hours

12

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.