

Sample 4-year Study Plan (Total 122 credit hours)

Year 1							
Semester 1				Semester 2			
CODE	COURSE TITLE	Prerequisite	C.H.	CODE	COURSE TITLE	Prerequisite	C.H.
BMD 001 Or BMD 002	Principles of Biology Or Mathematics		0	BMD 103	Human Biology and Physiology	BMD 102	3
CSCI 101	Computer & Information Skills		3	CSCI 201	Structured Programming	CSCI 101	3
MATH 111	Analytical Geometry & Calculus I		3	MATH 211	Discrete Mathematics	MATH 111	3
PHYS 101	Physics I	MATH 111 or concurrent	4	HUMA 103	Selected Topics in Humanities & Arts		2
BMD 102	Biology		3	CSCI 205	Introduction to Computer Systems	CSCI 201 or concurrent	3
ENGL 101	English I		0	ENGL 102	English II	ENGL101	0
BMD 101	Biochemistry		3	SSCI 101	Selected Topics in Egyptian & Arab Heritage		2
TOTAL CREDIT HOURS			16	TOTAL CREDIT HOURS			16

Year2							
Semester 3				Semester 4			
<i>CODE</i>	<i>COURSE TITLE</i>	<i>Prerequisite</i>	<i>C.H.</i>	<i>CODE</i>	<i>COURSE TITLE</i>	<i>Prerequisite</i>	<i>C.H.</i>
HUMA 101	Introduction to Logic and Critical Thinking		2	BMD 201	Biomedical Data Acquisition	BMD 103 CSCI 207	3
MATH 303	Numerical Methods	MATH 211	3	CSCI 419	Theory of Computing	MATH 211	3
CSCI 217	Advanced Programming	CSCI 201	3	MATH 303	Linear Algebra	MATH 303	3
MATH 202	Probability & Statistics	MATH 111	3	CSCI 304	System Analysis and Design	CSCI 207	3
CSCI 207	Data Structures	CSCI 217	3	CSCI 371	Bioinformatics	BMD103, BMD 101 and CSCI 201	3
TOTAL CREDIT HOURS			14	TOTAL CREDIT HOURS			15

Year3							
Semester 5				Semester 6			
CODE	COURSE TITLE	Prerequisite	C.H	CODE	COURSE TITLE	Prerequisite	C.H.
BMD 202	Clinical Informatics	BMD 201	3	CSCI 463 (ECEN 401)	Introduction to Computer Networks	CSCI 304	3
CSCI472	Signal Processing		3	BMD303	Biomedical Information System	BMD 202	3
CSCI 322	Introduction to Data Science	MATH 202,203	3	CSCI 451	Digital Image Processing	CSCI 304	3
CSCI 315	Operating Systems	CSCI 311 and CSCI 304	3	ENGL 202	Communication & Presentation Skills	ENGL 201	3
CSCI 221	Logic Design with Lab.	MATH 211	4	SSCI 102	Selected Topics in World Cultures & Diversity		2
HUMA 102	Introduction to Ethics		2	CSCI 404	Database Systems	CSCI 304	3
TOTAL CREDIT HOURS			18	TOTAL CREDIT HOURS			17

Year4							
Semester 7				Semester 8			
CODE	COURSE TITLE	Prerequisite	C.H	CODE	COURSE TITLE	Prerequisite	C.H
BMD404	Medical Image Informatics	BMD303, CSCI 451	3	ENGL 201	Scientific Writing	ENGL 102	3
CSCI 461	Introduction to Big Data	CSCI 304	3	CSCI 467	Data Mining and Analytics	CSCI 322 and CSCI 417	3
SSCI 103	Selected Topics in Social Sciences		2	CSCI 490	Industrial/Research Training		2
CSCI 417	Machine Intelligence	CSCI 304	3	CSCI 313	Software Engineering	CSCI 207 CSCI 217	3
CSCI 495	Senior Project I	8 core OR concur.	2	CSCI 496	Senior Project II	CSCI 495	2
TOTAL CREDIT HOURS			13	TOTAL CREDIT HOURS			13