

SCHOOL OF SCIENCES
DEPARTMENT OF BIOCHEMISTRY

100 LEVEL 1 ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
PHY 101	R	General Physics 1	2	1	-	3
PHY 103	R	General Physics III	1	1	-	2
PHY 107	R	General Physics Laboratory I.	-	-	3	1
CHE 101	C	General Chemistry I	2	1	3	4
BIO 101	C	General Biology I	2	1	3	4
MTS 101	R	Introductory Mathematics I	2	1	-	3
MEE 101	R	Engineering Drawing I	1	-	6	3
GNS 101	R	Use of English I	1	1	-	2
GNS 103	R	Information Retrieval I	1	-	-	1
Total						23

100 LEVEL 2 ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
PHY 102	R	General Physics II	2	1	-	3
PHY 108	R	General Physics Laboratory II	-	-	3	1
CHE 102	C	General Chemistry II	2	1	3	4
BIO 102	C	General Biology II	2	1	3	4
MTS 102	R	Introductory Mathematics II	2	1	-	3
MEE 102	R	Workshop Practice	0	-	6	2
GNS 102	R	Use of English II	1	1	-	2
GNS 106	R	Logic & Philosophy	1	1	-	2
Total						21

200 LEVEL 1 ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
BCH 201	C	General Biochemistry 1	2	-	3	3
CHE 201	C	Inorganic Chemistry I	1	-	3	2
CHE 203	C	Organic Chemistry I	1	-	3	2
CHE 205	C	Physical Chemistry I	1	-	3	2
MCB 201	C	General Microbiology I	2	-	3	3
BIO 201	C	Introductory Genetics I	2	1	3	4
CSP 201	C	General Agriculture (Theory) I	1	-	-	1
MTS 201	C	Mathematical Methods I	2	1	-	3
PHY 201	C	Elementary Modern Physics	2	1	-	3
Total						23

<i>Audited Courses for D.E students</i>						
COURSE CODE		COURSE TITLE	L	T	P	Units
GNS 101	R	Use of English I	1	1	0	2
GNS 103	R	Information Retrieval	1	0	0	1
MEE 101	R	Engineering Drawing I	1	0	6	3

200 LEVEL 2 ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
CHE 202	C	Analytical Chemistry	1	-	3	2
BCH 202	C	General Biochemistry II	2	-	3	3
BIO 204	C	Biological Techniques	2	-	3	3

MTS 224	C	Statistics for Bio Science	2	1	3	4
CSC 102	R	Introduction to Computing	2	-	3	3
CSP 210	R	General Agriculture (Practical)	-	-	6	2
PMT 210	R	Principles of Economics	2	1	-	3
CHE 204	C	Structure and Bonding	2	-	-	2
	Total					22

University Required Courses for Direct Entry Students						
MEE 102	R	Workshop practice	0	-	6	2
GNS 102	R	Use of English II	1	1	-	2
GNS 106	R	Logic and Philosophy	1	1	-	2

300 LEVEL 1ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
BCH 301	C	Intermediary Metabolism	3	1	-	4
BCH 303	C	Protein Structure and Functions	3	-	-	3
CHE 303	C	Organic Chemistry II	3	-	3	4
CHE 305	C	Physical Chemistry II	1	-	3	2
CHE 315	C	Instrumental Methods	1	-	3	2
MCB 303	C	Microbial Genetics	2	-	3	3
CSC 201	R	Introduction to Fortran Programming	2	-	3	3
EMT 301	R	Introduction to Entrepreneurship	2	0	0	2
		Total				23

300 LEVEL 2 ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
BCH 302	C	Nutritional Biochemistry	3	-	-	3
BCH 304	C	Immunochemistry	2	-	-	2
BCH 306	C	Methods in Biochemistry	2	-	-	2
BCH 308	C	Metabolism of Nucleic Acids	2	-	-	2
BCH 310	C	Metabolism of Liquids	2	-	-	2
BCH 312	C	Enzymology	2	1	-	3
BCH 314	R	Biomem & Bioenergetics	2	-	-	2
BCH 316	C	General Lab Tech. in Biochemistry	-	-	6	2
EMT 302	R	Practical Skills in Entrepreneurship	0	0	9	3
		Total				21
Electives						
**MCB 304	E	Environmental Microbiology	1	-	3	2
** MCB 308	E	Microb Physiol and Metab	2	-	3	3

400 LEVEL 1ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
BCH 401	C	Advanced Enzymology	2	1	-	3
BCH 403	C	Biochemical Toxicology	3	-	-	3
BCH 405	C	Plant Biochemistry	3	-	-	3
BCH 407	C	Mol. Biology of the Gene	2	-	-	2
BCH 409	C	Advanced Biochemistry Methods	-	-	6	2
BCH 411	C	Bioinorganic Chemistry	2	-	-	2
BCH 413	R	Elements of Genetic Engineering	2	1	-	3
BCH 415	R	Biochemical Reasoning	1	-	-	1
		Total				19
Electives						
BCH 417	E	Biochemistry of Parasites	2	-	-	2

MCB 401	E	Industrial Microbiology	3	-	3	4
APH 509	E	Immunology and Serology	2	-	3	3
MCB 403	E	Pharmaceutical Microbiology	2	-	3	3
MCB 409	E	Food Microbiology	2	-	3	3

400 LEVEL 2 ND SEMESTER LONG VACATION (SIWES)						
COURSE CODE		COURSE TITLE	L	T	P	Units
BCH 402	C	Industrial Training Assessed by Industrial based Supervisors	0	0	0	4
BCH 404	C	Industrial Training Assessed by FUTA Supervisors	0	0	0	4
BCH 406	C	Student's Report and Seminar presentation	0	0	0	4
Total						12

500 LEVEL 1 ST SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
BCH 501	C	Metabolic Regulations	2	1	-	3
BCH 503	C	Biochemical Reaction Mech.	2	1	-	3
BCH 505	C	Enzyme Biotechnology	2	1	-	3
BCH 507	C	Industrial Biochemistry	2	1	-	3
BCH 509	C	Biophysics	2	1	-	3
BCH 511	E	Intro. To Bioinformatics	2	1	-	3
BCH 599	C	Final Year Student's Project.	0	0	18	6
Total						24
Electives						
GNS 501	E	Industrial Management	2	-	1	3

500 LEVEL 2 ND SEMESTER						
COURSE CODE		COURSE TITLE	L	T	P	Units
BCH 502	C	Pharmacological Biochemistry	2	1	-	3
BCH 504	C	Advanced Biotechnology	2	1	-	3
BCH 506	C	Process Biochemistry	3	-	-	3
BCH 508	C	Special Topics/Seminars in Biochemistry	2	-	-	2
BCH 510	C	Tissue Biochemistry	2	1	-	3
Total						14