

STRUCTURE OF DEGREE PROGRAMMES IN THE DEPARTMENT OF LIFE SCIENCES (2009/10)
MAJORS

N.B. Students are required to obtain at least 101 overall credits, at least 60 of which must be at Advanced Level (64 for Double Majors and Single Majors with two Minors). It is the Student's responsibility to consult the Faculty Undergraduate Booklet and to obtain complete and accurate information from all sources available.

INTRODUCTORY COURSES		BIOLOGY MAJOR **	
		SEMESTER - I	SEMESTER - II
LEVEL I		BL12B/BIO1261: DIVERSITY OF ORGANISMS (6) C10A/CHEM 1062: CHEMISTRY FOR LIFE SCS (3)* <small>* For students without a pass in A'Level/CAPE Chemistry</small>	BL11D/BIO1061: CELL BIOLOGY AND GENETICS (6) BL11G/BIO1462: GENERAL ECOLOGY AND BIOMETRY (6) MUST DO AT LEAST 24 CREDITS LEVEL I COURSES

ADVANCED COURSES - 32 CREDITS		CORE	
		SEMESTER - I	SEMESTER - II
LEVEL II		BC22A/BIO12361: BIOMOL. & ENERGY METABOL (4) BL28D/BIO12263: GENERAL MICROBIOLOGY. (4) BL27B/BIO12162: ADVANCED GENETICS (4)	BT27A/BIO12761: PLANT PHYSIOLOGY (4) Z21F/BIO12862: ANIMAL PHYSIOLOGY. (4)
LEVEL III		BL38C/BIO13061: MOLECULAR BIOLOGY (4)	BL36B/BIO13662: EVOLUTION & BIOSYSTEMATICS(4) BIO13264: FUNCTIONAL DESIGN IN BIOLOGY (4)

ELECTIVES		OTHER COURSES TO BE USED FOR BIOLOGY DOUBLE MAJOR	
		SEMESTER - I	SEMESTER - II
		Z24B/BIO12461: HUMANS AND THE ENVIRON. (4) Z34E/BIO13863: TROPICAL AQUACULTURE (4) BT38L/BIO13763: CROP IMPROVEMENT (4) Z23C/BIO12063: MARINE ECOLOGY. (4) BL33B/BIO13069: RESEARCH PROJECT (4)	Z23B/BIO12062: FRESHWATER BIOLOGY (4) BL33B/BIO13069: RESEARCH PROJECT (4) BT37E/BIO13464: TROP. FOREST ECOL. (4) BT36D/BIO13762: PLANT BIOTECHNOLOGY (4) BL38J/BIO13262: MICROBIAL BIOTECHNOLOGY (4) Z34D/BIO13864: FISHERIES BIOL. & MGMT (4) Z31A/BIO13461: COASTAL ECOSYSTEM MANAGEMENT (4) Z36B/BIO13062: CONSERVATION BIOLOGY (4) Z23C/BIO12063: MARINE ECOLOGY. (4)

INTRODUCTORY COURSES		ENVIRONMENT & NATURAL RESOURCE MANAGEMENT MAJOR	
		SEMESTER - I	SEMESTER - II
LEVEL I		AM15A/AGBU1005: INTRO TO MICROECONMICS (3) BL12A/BIO1065: DIVERSITY OF PLANTS & ANIMALS (4) AS16B/AGSL1000: SOIL & THE ENVIRONMENT (4) AG10A/AGRI1012: MICROBIOLOGY (3)	BL11G/BIO1462: GEN. ECOLOGY & BIOMETRY (6) AM17B/AGBU1002: INTRO TO AGRO-ENVT MGT (4)

ADVANCED COURSES - 32 CREDITS		CORE	
		SEMESTER - I	SEMESTER - II
LEVEL II		Z24B/BIO12461: HUMANS AND THE ENVT (4) AS34D/AGSL3004: INTEGR WATERSHED MGT (4)	AS33D/AGSL3003: SOIL SURVEY & LAND EVALN (4) BT37E/BIO13464: TROP. FOREST. ECOL. & MGT. (4)
LEVEL III		BL39B/BIO13463: POLLUTION AND ENVT MGT (4)	Z36B/BIO13062: CONSERVATION BIOLOGY (4)

PLUS 2 ELECTIVES SELECTED FROM:		SEMESTER - I	SEMESTER - II
		AX25B/AGEX2001: OPER & MGMT OF EXT PROG. (4) Z23C/BIO12063: MARINE ECOLOGY (4) BL33B/BIO13069: RESEARCH PROJECT (4) C30E/CHEM3560: ENVIRONMENTAL CHEMISTRY (4) AM39A/AGBU3010: ENVIRONMENTAL ECONOMICS (4)	AM33D/AGBU3003: INTRO TO ECOTOURISM (4) AG39A/AGRI3001: CLIMATE CHANGE IMPACT & MGT (4) Z34D/BIO13864: FISHERIES BIOLOGY & MGMT (4) Z31A/BIO13461: COASTAL ECOSYSTEM MGMT (4) Z23B/BIO12062: FRESHWATER BIOLOGY (4) Z23C/BIO12063: MARINE ECOLOGY (4)

DATE: 23/07/09

NOTE: BIOL 3068: NEOTROPICAL FIELD COURSE IN TROPICAL ECOLOGY (4 CREDITS) IS OFFERED IN SEMESTER III (Summer)

INTRODUCTORY COURSES		BIOCHEMISTRY MAJOR **	
		SEMESTER - I	SEMESTER - II
LEVEL I		C11C/CHEM 1060: INTRODUCTORY CHEMISTRY I (6) ONE (1) ADDITIONAL LEVEL I LIFE SCIENCE COURSE PLUS AT LEAST SIX (6) ADDITIONAL LEVEL 1 CREDITS	BL11D/BIO1061: CELL BIOLOGY AND GENETICS (6)

ADVANCED COURSES - 32 CREDITS		CORE	
		SEMESTER - I	SEMESTER - II
LEVEL II		BC22A/BIO12361: BIOMOLECULES & ENERGY METAB (4) BC23A/BIO12363: METABOLISM (4)	BC22B/BIO12362: FURTHER METAB & GENE EX (4) BC23B/BIO12364: ADV. GEN. BIOCHEMISTRY (4)
LEVEL III		BC33A/BIO13361: APPLIED BIOCHEMISTRY (4) BL38C/BIO13061: MOLECULAR BIOLOGY (4)	BC38B/BIO13362: SELECT. TOPICS IN BIOCHEM. (4)

PLUS ONE ELECTIVE SELECTED FROM:		SEMESTER - I	SEMESTER - II
		BL33B/BIO13069: RESEARCH PROJECT (4)	BC37B/BIO13364: CLINICAL BIOCHEMISTRY (4) BL33B/BIO13069: RESEARCH PROJECT (4) BL38J/BIO13262: MICROBIAL BIOTECHNOLOGY (4) C20F/CHEM2460: PRINCIPLES OF CHEMICAL ANALYSIS

**** STUDENTS DOING MAJORS IN BIOLOGY & BIOCHEMISTRY ARE ADVISED TO READ BIOL2162 - ADVANCED GENETICS AT LEVEL II AND BIOL 2263 - GENERAL MICROBIOLOGY AT LEVEL III SINCE BIOL 2162 IS A PREREQUISITE FOR BIOL 3061 MOLECULAR BIOLOGY**

ZOOLOGY MAJOR - HAS BEEN DISCONTINUED W.E.F. 2007/2008
STUDENTS WHO STARTED THIS MAJOR PRIOR TO 2007/2008 WILL BE ALLOWED TO CONTINUE

ADVANCED COURSES - 32 CREDITS		CORE	
		SEMESTER - I	SEMESTER - II
LEVEL II		Z24E/BIO12864: FUNCTIONAL DESIGN IN ANIMALS (4)** **Has been discontinued with effect from 2007/08	Z21F/BIO12862: ANIMAL PHYSIOLOGY (4)
LEVEL III		Z33E/BIO13861: ANIMAL BEHAVIOUR (4)	BL36B/BIO13662: EVOLUTION & BIOSYSTEMATICS (4)

PLUS FOUR (4) ELECTIVES SELECTED FROM:		SEMESTER - I	SEMESTER - II
		Z23C/BIO12063: MARINE ECOLOGY (4) Z34E/BIO13863: TROPICAL AQUACULTURE (4) BL33B/BIO13069: RESEARCH PROJECT (4) Z24B/BIO12461: HUMANS AND THE ENVIRON. (4)	Z23B/BIO12062: FRESHWATER BIOLOGY (4) Z36B/BIO13062: CONSERV BIOLOGY (4) BL33B/BIO13069: RESEARCH PROJECT (4) Z22B/BIO12866: ENTOMOLOGY (4) (NOT OFFERED 2010/11) BT37E/BIO13464: TROP. FOREST. ECOL. & MGT. (4) Z34D/BIO13864: FISHERIES BIOL & MGMT Z22C/BIO12864: PARASITISM (4) (NOT OFFERED 2009/10) Z31A/BIO13461: COASTAL ECOSYSTEM MANAGEMENT Z23C/BIO12063: MARINE ECOLOGY (4)

N.B. Joint Major in Biochemistry and Biology: BC22A/BIO12361 should be credited to Biochemistry & BL38C/BIO13061 credited to Biology
Please select 1 additional elective EACH for Biochemistry and Biology