

REQUIREMENTS FOR THE AWARD OF A DEGREE

In all cases a degree is granted for successful completion of courses such that the student has obtained at minimum the following

Level 1 Compulsory	24 credits
Level 2 and Level 3	60 credits
Level 1-3 (Additional)	8 credits
Foundation courses	9 credits

Total 101

N.B. A Double Major requires a total of 64 credits from Level 2 and Level 3.

Taken from Faculty of Pure and Applied Sciences Regulations and Syllabuses

OPTION

A permissible combination of courses leading to a degree, diploma or certificate. Courses are taught by more than one Department.



THE UNIVERSITY OF THE WEST INDIES MONA

DEPARTMENT OF LIFE SCIENCES

2010-2011

BSc OPTION:

MICROBIOLOGY

(with the Department of
Basic Medical Sciences)

BSc OPTION:

**BIOLOGY WITH
EDUCATION**

(with the Department of
Educational Studies)

DEPARTMENT OF LIFE SCIENCES UWI, MONA

**B.Sc. OPTION:
BIOLOGY WITH EDUCATION**

Year I		
Semester I		
BL12C/BIOL1016	Cell, Molecular Biology & Genetics	(6 credits)
OR	BIOL1017 Cell Biology	(3 credits)
	BIOL1018 Molecular Biology & Genetics	(3 credits)
BL12B/BIOL1261	Diversity of Organisms	(6 credits)
OR	BIOL1262 Living Organisms I	(3 credits)
	BIOL1263 Living Organisms II	(3 credits)
ED20C/EDPS2003	Motivation and the Teacher	(6 credits)
Either	ED20M/EDCU2013 Introduction to the Curriculum	(3 credits)
Or	ED10T/EDTL1020 Introduction to Teaching & Learning	(3 credits)
Semester II		
BC10M/BIOC1011	Introductory Biochemistry	(6 credits)
BL12B/BIOL1261	Diversity of Organisms	(6 credits)
ED30D/EDTK3004	Educational Technology	(3 credits)
Either	ED34H/EDSC3408 Environmental Education	(3 credits)
Or	ED10U/EDTL1021 Planning for Teaching	(3 credits)
Year II		
Semester I		
BL20J/BIOL2011	General & Molecular Genetics	(4 credits)
BL20P/BIOL2015	Biometry	(4 credits)
ED24G/EDSC2407	Teaching Methodologies in Science	(3 credits)
ED24E/EDSC2405	The Psychology of Science Teaching and Learning	(3 credits)
Semester II		
BT21B/BOTN2011	Seed Plants	(4 credits)
BT22A/BOTN2012	Plant Physiology	(4 credits)
ED34Q/EDSC3417	Introduction to Secondary Science Practicals	(3 credits)
ED20U/EDTL2021	School Based Experience I	(3 credits)
Year III		
Semester I		
BL20K/BIOL2012	Evolutionary Biology	(4 credits)
BL20N/BIOL2014	Ecology	(4 credits)
ED30T/EDSC3020	The Teacher as Researcher	(3 credits)
ED34C/EDSC3403	Assessment in Science Teaching	(3 credits)
Semester II		
Z20G/ZOOL2012	Functional Organization of Animals I	(4 credits)
Z20H/ZOOL2013	Functional Organization of Animals II	(4 credits)
ED30Q/	School Based Experience II	(3 credits)
ED30S	Classroom Enquiry	(3 credits)

**2010-2011
UNDERGRADUATE COURSES
PART I**

PRELIMINARY LEVEL		(6 credits)
BL05A/BIOL0011	Preliminary Biology I	
BL05B/BIOL0012	Preliminary Biology II	
LEVEL 1		
BL12C/BIOL1016	Cell Molecular Biology & Genetics	(6 credits)
OR	BIOL1017 Cell Biology	(3 credits)
	BIOL1018 Molecular Biology & Genetics	(3 credits)
BL12B/BIOL1261	Diversity of Organisms	(6 credits)
OR	BIOL1262 Living Organisms I	(3 credits)
	BIOL1263 Living Organisms II	(3 credits)
PART II		
LEVEL 2		(4 credits)
BL20J/BIOL2011	General and Molecular Genetics	
BL20K/BIOL2012	Evolutionary Biology	
BL20N/BIOL2014	Ecology	
BL20P/BIOL2015	Biometry	
BT21B/BOTN2011	Seed Plants	
BT22A/BOTN2012	Plant Physiology	
Z 20G/ZOOL2012	Functional Organization of Animals I	
Z 20H/ZOOL2013	Functional Organization of Animals II	
BL23D/MICR2252	Eukaryotic microorganisms	
LEVEL 3		(4 credits)
BL30M/BIOL3011	Mycology	
*BL30K/BIOL3012	Soil Biology	
BL31A/BIOL3013	Coastal Management	
BL31E/BIOL3014	Marine Ecology 1: Biological Oceanography	
BL31F/BIOL3015	Marine Ecology 11: Benthic Communities	
BL31G/BIOL3023	Coral Reef Biology	
BL33D/BIOL3021	Freshwater Ecology	
BL38A/BOTN3017	Virology	
BL39C/BIOL3018	Research Project	
*BL39D/BIOL3019	Caribbean Biodiversity	
BL39E/BIOL3020	Conservation Biology	
*BT31A	Phycology	
BT33A/BOTN3014	Forest Ecology, Agroforestry and Sustainable Development	
BT33B/BOTN3018	Medicinal and Economic Botany	
BT34A/BOTN3015	Principles of Plant Breeding	
BT37Q/BIOL3016	Plant Health	
BT38B/BOTN3016	Plant Biotechnology	
BT 38K/BOTN3017	Principles of Horticulture	
*Z 30A/ZOOL3011	Sensory & Neuromuscular Physiology	
*Z 30B/ZOOL3012	Metabolic Physiology	
Z 30G/ZOOL3015	General Parasitology	
Z 30M/ZOOL3017	Immunology	
*Z 31B/ZOOL3024	Fisheries	
*Z 31C/ZOOL3018	Fish Biology	
Z 31F//ZOOL3019	Fisheries & Aquatic Technologies	
Z 32C/ZOOL3020	Insect Biology and Systematics	
Z32G/ZOOL3021	Pest Management	
* Not offered in 2010/2011 academic year		

**B.Sc. OPTION :
MICROBIOLOGY**

CORE:		
BL12C/BIOL1016	Cell, Molecular Biology & Genetics	(6 credits)
OR	BIOL1017 Cell Biology	(3 credits)
	BIOL1018 Molecular Biology & Genetics	(3 credits)
BL12B/BIOL1261	Diversity of Organisms	(6 credits)
OR	BIOL1262 Living Organisms I	(3 credits)
	BIOL1263 Living Organisms II	(3 credits)
#BC10M	Introductory Biochemistry	(6 credits)
C 10J	Introductory Chemistry A	(6 credits)
C 10K	Introductory Chemistry B	(6 credits)
#BC21C	Molecular Biology I	(4 credits)
#BC21D	Bioenergetics & Cell Metabolism	(8 credits)
#BC21M	Microbiology	(4 credits)
BL20J/BIOL2011	General & Molecular Genetics	(4 credits)
BL38A/BOTN3017	Virology	(4 credits)
BL30M/BIOL3011	Mycology	(4 credits)
Replaced by BL23D/MICR2252 Eukaryotic Microorganisms		(4 credits)
*BT31A	Phycology	(4 credits)
Replaced by BC34M Molecular Microbiology		(4 credits)
#BC31M	Applied & Environmental Microbiology	(4 credits)
Either	BL39C/BIOL3018 Research Project	(4 credits)
Or	#BC36A Research Project	(4 credits)
		(40 level 2 credits)
ELECTIVES: 24 credits from courses listed below:		
#BC34C	Molecular Biology II	(4 credits)
#BC35C	Biotechnology I	(4 credits)
#BC35D	Biotechnology II	(4 credits)
#BC37A	Fermentation Technology	(4 credits)
BL20P/BIOL2015	Biometry	(4 credits)
Z30G/ZOOL3015	General Parasitology	(4 credits)
Z30M/ZOOL3017	Immunology	(4 credits)
*BL30K/BIOL3012	Soil Biology	(4 credits)
BT37Q/BIOL3016	Plant Health	(4 credits)
BT38B/BOTN3016	Plant Biotechnology	(4 credits)
*Z 30H	Applied Parasitology	(4 credits)

#taught by Biochemistry Section, Department of Basic Medical Sciences

*Courses not offered in 2010/2011 academic year

Not all courses are available every year, and certain combinations of courses are limited by