



Enseignement secondaire		
Classes internationales		
	Régime anglophone	
Biologie SL		
Programme		
2IB et 1IB		

Leçons hebdomadaires : 3
Langue véhiculaire : anglais
Nombre minimal de devoirs par semestre : 2

	Topic	Number of lessons
1	Cell biology	15
	1.1 Introduction to cells 1.2 Ultrastructure of cells 1.3 Membrane structure 1.4 Membrane transport 1.5 The origin of cells 1.6 Cell division	
2	Molecular biology	21
	2.1 Molecules to metabolism 2.2 Water 2.3 Carbohydrates and lipids 2.4 Proteins 2.5 Enzymes 2.6 Structure of DNA and RNA 2.7 DNA replication, transcription and translation 2.8 Cell respiration 2.9 Photosynthesis	
3	Genetics	15
	3.1 Genes 3.2 Chromosomes 3.3 Meiosis 3.4 Inheritance 3.5 Genetic modification and biotechnology	



4	Ecology	12
	4.1 Species, communities and ecosystems 4.2 Energy flow 4.3 Carbon recycling 4.4 Climate change	
5	Evolution and biodiversity	12
	5.1 Evidence for evolution 5.2 Natural selection 5.3 Classification of biodiversity 5.4 Cladistics	
6	Human physiology	20
	6.1 Digestion and absorption 6.2 The blood system 6.3 Defence against infectious disease 6.4 Gas exchange 6.5 Neurons and systems 6.6 Hormones, homeostasis and reproduction	
	OPTION – ONE out of the following	15
A	<i>Neurobiology and behaviour</i>	
	A.1 Neural development A.2 The human brain A.3 Perception of stimuli	
B	<i>Biotechnology and bioinformatics</i>	
	B.1 Microbiology; organisms in industry B.2 Biotechnology in agriculture B.3 Environmental protection	
C	<i>Ecology and conservation</i>	
	C.1 Species and Communities C.2 Communities and ecosystems C.3 Impacts of humans on ecosystems C.4 Conservation of biodiversity	
D	<i>Human physiology</i>	
	D.1 Human nutrition D.2 Digestion D.3 Functions of the liver D.4 The heart	

Practical scheme of work :

Activity	hours
Practical activities	20
Individual investigation (internal assessment)	10
Group 4 project	10

Total recommended teaching hours : 150 hours