



## **IB BIOLOGY (HL) SUBJECT BRIEF**

Course description and aims:	Biology is the study of life. It is a science that deals with life and living things, examines their structure, their functions, their relations, the living and inanimate environment, their changes, and their diversity. So, biology is an endless source of areas. It is important at a time of growing pressure on the human population and the environment. Studying biology in the DP, students should become aware of how scientists work and communicate with each other. They will learn the variety of forms of scientific methods, design investigations, collect data, develop skills, analyse results, collaborate-evaluate, and communicate their findings. The Aims of the DP biology course are to enable students to:	
	<ul> <li>challenging opportunities</li> <li>acquire a body of knowledge, methods a</li> <li>apply and use a body of knowledge, methods a</li> <li>apply and use a body of knowledge, methods a</li> <li>develop an ability to analyse, evaluate an</li> <li>develop a critical awareness of the need communication during scientific activitie</li> <li>develop experimental and investigative in develop and apply 21st century community</li> <li>become critically aware, as global citizer technology</li> <li>develop an appreciation of the possibilities</li> </ul>	for, and the value of, effective collaboration and es scientific skills including the use of current technologies
Syllabus outline	Core	Option (choice of 1 out of 4)
-	1. Cell biology	1. Neurobiology and behaviour
and content:	2. Molecular biology	2. Biotechnology and bioinformatics
	3. Genetics	3. Ecology and conservation
	4. Ecology	4. Human physiology
	5. Evolution and biodiversity	
	6. Human physiology	Practical scheme of work
		Prescribed and other practical activities
	Additional higher level	Individual investigation
	7. Nucleic acids	Group 4 project
	8. Metabolism, cell respiration and	
	photosynthesis	
	9. Plant biology	
	10.Genetics and evolution	
	11.Animal physiology	
Assessment	External:	
	Paper 1	Duration: 60 min / Weighting: 20% / Marks: 40
Information:	(40 multiple-choice questions (Core))	
	Paper 2	Duration: 2h 15min / Weighting: 36% / Marks: 72
	(Data-based, short answer and extended response	
	questions)	
	Paper 3	Duration: 1h 15min / Weighting: 24% / Marks: 45
	(Data-based, short answer and extended response questions)	
	Internal	
	Internal:	Duration 10h / Waighting 200/
	Individual Investigation	Duration: 10h / Weighting: 20%
	(Investigation and write-up of 6 to 12 pages)	
Sources:	OCC IB DP Biology guide	

http://www.ibo.org/programmes/diploma-programme/curriculum/sciences/biology/

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