

University of Pretoria Yearbook 2022

Molecular and cell biology 111 (MLB 111)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	16.00
NQF Level	05
Programmes	BEd (Senior Phase and Further Education and Training Teaching)
	BSc (Computer Science)
	BSc (Information and Knowledge Systems)
	BChD
	MBChB
	BDietetics
	BSc (Meteorology)
	BSc (Biochemistry)
	BSc (Biological Sciences)
	BSc (Biotechnology)
	BSc (Chemistry)
	BSc (Culinary Science)
	BSc (Ecology)
	BSc (Entomology)
	BSc (Food Science)
	BSc (Genetics)
	BSc (Geography and Environmental Science)
	BSc (Human Genetics)
	BSc (Human Physiology)
	BSc (Human Physiology, Genetics and Psychology)
	BSc (Medical Sciences)
	BSc (Microbiology)
	BSc (Nutrition)
	BSc (Physics)



	BSc (Plant Science)
	BSc (Zoology)
	BScAgric (Agricultural Economics and Agribusiness Management)
	BScAgric (Animal Science)
	BScAgric (Applied Plant and Soil Sciences)
	BScAgric (Plant Pathology)
	BVSc
Service modules	Faculty of Engineering, Built Environment and Information Technology
	Faculty of Education
	Faculty of Health Sciences
	Faculty of Veterinary Science
Prerequisites	A candidate who has passed Mathematics with at least 60% in the Grade 12 examination
Contact time	1 practical/tutorial per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Biochemistry, Genetics and Microbiology
Period of presentation	Semester 1

Module content

Introduction to the molecular structure and function of the cell. Basic chemistry of the cell. Structure and composition of prokaryotic and eukaryotic cells. Ultrastructure and function of cellular organelles, membranes and the cytoskeleton. General principles of energy, enzymes and cell metabolism. Selected processes, e.g. glycolysis, respiration and/or photosynthesis. Introduction to molecular genetics: DNA structure and replication, transcription, translation. Cell growth and cell division.

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

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