

University of Pretoria Yearbook 2021

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
	BDietetics
	MBChB
	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.

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