

## University of Pretoria Yearbook 2021

## Carbohydrate metabolism 252 (BCM 252)

lule credits  12.0  E Level 06  BDie  BSc  BSc  BSc	ulty of Natural and Agricultural Sciences  00  etetics  Biochemistry  Biotechnology  Chemistry  Culinary Science  Entomology  Food Science
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BSc	
BSc	Food Science
BSc	1 ood Science
BSc	Genetics
BSc	Human Genetics
BSc	Human Physiology
BSc	Human Physiology, Genetics and Psychology
BSc	Medical Sciences
BSc	Microbiology
BSc	Nutrition
BSc	Plant Science
BSc	Zoology
BSc	Agric Animal Science
vice modules Faci	ulty of Education
	ulty of Health Sciences
<b>requisites</b> BCM	1 251 GS and BCM 257 GS.
tact time 1 tu	torial per week, 2 lectures per week
<b>guage of tuition</b> Mod	dule is presented in English
	chemistry, Genetics and Microbiology
iod of presentation Sem	nester 2



## **Module content**

Carbohydrate structure and function. Blood glucose measurement in the diagnosis and treatment of diabetes. Bioenergetics and biochemical reaction types. Glycolysis, gluconeogenesis, glycogen metabolism, pentose phosphate pathway, citric acid cycle and electron transport. Total ATP yield from the complete oxidation of glucose. A comparison of cellular respiration and photosynthesis. Online activities include techniques for the study and analysis of metabolic pathways and enzymes; PO ratio of mitochondria, electrophoresis, extraction, solubility and gel permeation techniques; scientific method and design.

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