



# University of Pretoria Yearbook 2016

## Carbohydrate metabolism 252 (BCM 252)

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| <b>Qualification</b>   | Undergraduate   |
| <b>Faculty</b>         | Faculty of Natural and Agricultural Sciences  |
| <b>Module credits</b>  | 12.00   |
| <b>Programmes</b>      | BDietetics Dietetics<br>BSc Biochemistry<br>BSc Biological Sciences<br>BSc Biotechnology<br>BSc Chemistry<br>BSc Ecology<br>BSc Entomology<br>BSc Food Management (4 years)<br>BSc Food Science<br>BSc Genetics<br>BSc Human Genetics<br>BSc Human Physiology<br>BSc Human Physiology, Genetics and Psychology<br>BSc Medical Sciences<br>BSc Microbiology<br>BSc Nutrition<br>BSc Physics<br>BSc Plant Science<br>BSc Zoology<br>BScAgric Animal Science<br>BScAgric Animal Science: Pasture Science<br>BScAgric Food Science and Technology |
| <b>Service modules</b> | Faculty of Education<br>Faculty of Health Sciences  |
| <b>Prerequisites</b>   | [CMY117 GS] and [CMY127 GS] and [MLB111 GS]   |



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| <b>Contact time</b>           | 90 minute practical per week, 2 lectures per week |
| <b>Language of tuition</b>    | Double Medium                                     |
| <b>Academic organisation</b>  | Biochemistry                                      |
| <b>Period of presentation</b> | Semester 1  |

### **Module content**

Biochemistry of carbohydrates. Thermodynamics and bioenergetics. Glycolysis, citric acid cycle and electron transport. Glycogen metabolism, pentose-phosphate pathway, gluconeogenesis and photosynthesis. Practical training in study and analysis of metabolic pathways and enzymes. Scientific method and design: Hypothesis design and testing, method design and scientific controls.

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