

BACCALAUREUS TECHNOLOGIAE: BIOMEDICAL TECHNOLOGY

Qualification code: BTBM01 - NQF Level 7

Campus where offered: Arcadia Campus (block-mode classes)
Last year of new intake: 2019
Teach-out (phase-out) date: 31 December 2022

Students registered for this qualification should complete their studies according to the teach-out date prescribed for the qualification, subject to the stipulations of Regulation 3.1.11 and 3.1.13 in the Students' Rules and Regulations.

Information on phased-out programmes can be obtained from the TUT website, www.tut.ac.za.

CURRICULUM

Consult the 2019 Faculty Prospectus for the full contents of the qualification.

ATTENDANCE (2021)

CODE	SUBJECT	CREDIT
IPP400T	Integrated Pathophysiology IV (year subject)	(0,500)
RMQ201T	Research Methods and Techniques (second-semester subject)	(0,125)
TOTAL CREDITS FOR THE YEAR:		0,625

ATTENDANCE (2022)

CODE	SUBJECT	CREDIT
LMG201T	Laboratory Management (second-semester subject)	(0,125)
MLB400T	Molecular Biology IV (year subject)	(0,250)
TOTAL CREDITS FOR THE YEAR:		0,375
TOTAL CREDITS FOR THE QUALIFICATION:		1,000

SUBJECT INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular subject. At time of publication, the syllabus content was defined as follows:

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INTEGRATED PATHOPHYSIOLOGY IV (IPP400T)

1 X 3-HOUR PAPER

(Subject custodian: Department of Biomedical Sciences)

The pathogenesis of the different systems of the body are studied with reference to the following systems: the skin, skeleton, muscle, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. The emphasis is on laboratory diagnosis and not on clinical cases. Case studies will be used. (Total tuition time: ± 90 hours)



L**LABORATORY MANAGEMENT (LMG201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Management and Entrepreneurship)**

Personnel and financial management. Management information systems. Communication. Entrepreneurial skills. (Total tuition time: ± 60 hours)

M**MOLECULAR BIOLOGY IV (MLB400T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Biomedical Sciences)**

Structure, composition and characteristics of macromolecules. Transcription and translation. Recombinant DNA technology and prokaryotic and eukaryotic genetic manipulation. Use of nucleic acid probes and primers. Mutation analysis. Human mitochondrial genome. Practical techniques. Project. (Total tuition time: ± 90 hours)

R**RESEARCH METHODS AND TECHNIQUES (RMQ201T)****1 X 3-HOUR PAPER****(Subject custodian: Department of Biomedical Sciences)**

Data collection. Data processing. Reporting: papers and seminars. Statistical methods: descriptive statistics, probability, inference, confidence intervals, parametric and distribution-free tests, analysis of variance, experimental design, correlation and regression. Project. (Total tuition time: ± 60 hours)

