

BACCALAUREUS TECHNOLOGIAE: ARCHITECTURAL TECHNOLOGY (Field of specialisation: Technology) Qualification code: BTAQ95 - NQF Level 7

Campus where offered: Pretoria Campus (day classes)
Last year of new intake: 2019
Teach-out (phase-out) date: 31 December 2021

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.

Key to asterisks:

* Information does not correspond to information in Report 151.
(Deviations approved by Senate in March 2009.)

CURRICULUM

SUBJECTS PRINTED IN BOLD ARE NOT FOR REGISTRATION PURPOSES.

YEAR SUBJECTS

Subjects must be taken in the combinations and in the sequence indicated. The following rules will apply:

- ARA400T, CDG40PT and CDG40QT must be taken concurrently.
- CDL40PT and CDL40QT must be taken concurrently.
- STW40PT and STW40QT must be taken concurrently.

CODE	SUBJECT	CREDIT
ARA400T	Advanced Computer Applications IV	(0,100)
CDG400T	Computer-Aided Draughting IV	
CDG40PT	Computer-Aided Draughting: Computer Hardware IV	(0,050)
CDG40QT	Computer-Aided Draughting: Network Systems IV	(0,050)
CDL400T	Construction and Detailing IV	
CDL40PT	Construction and Detailing: Construction Methods IV	(0,050)
CDL40QT	Construction and Detailing: Construction Materials IV	(0,050)
LWC410T	Law and Contract Management IV*	(0,050)
OFFP400T	Office Practice IV	
OFFP40PT	Office Practice: Architectural Practice IV	(0,050)
OFFP40QT	Office Practice: Business Management IV	(0,050)
PJG420T	Project Management IV*	(0,050)
STW400T	Studio Work IV	
STW40PT	Studio Work: Contract Documentation IV	(0,300)*
STW40QT	Studio Work: Specification IV	(0,200)*
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 module. On 01 October 2019, the syllabus content was defined as follows:

A

ADVANCED COMPUTER APPLICATIONS IV (ARA400T) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Architecture*)
Visual communication and presentation software, website design and maintenance. (Total tuition time: ± 24 hours)

C

COMPUTER-AIDED DRAUGHTING: COMPUTER HARDWARE IV (CDG40PT) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Architecture and Industrial Design*)
An overview of all the current terminology, concepts and basics of computing hardware. Hardware support and software support for different operating systems. (Total tuition time: ± eight hours)

COMPUTER-AIDED DRAUGHTING: NETWORK SYSTEMS IV (CDG40QT) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Architecture and Industrial Design*)
Current and emerging networking hardware basics and terminology. Operating system set-up for networking. Data security and maintaining networks. Basic network-related software support skills. (Total tuition time: ± eight hours)

CONSTRUCTION AND DETAILING: CONSTRUCTION MATERIALS IV (CDL40QT) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Architecture and Industrial Design*)
Cement, concrete and cementitious products. Metals: corrosion, joining, ferrous and non-ferrous metals. Bricks and blocks: clay, concrete and earth. Timber: defects and protection, products. Polymers, plastics and rubbers. Mastics. Composite materials: external cladding, wood products. Paint systems. Adhesives. (Total tuition time: ± 21 hours)

CONSTRUCTION AND DETAILING: CONSTRUCTION METHODS IV (CDL40PT) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Architecture and Industrial Design*)
Bricks and blocks. Timber structures. Detailing. Geotechnical investigations. Roofs. Sustainable building methods. Thermal behaviour of buildings. Surface water drainage. Solar energy. Building systems (Agreement certificate). Building services. Regulations (SANS 10400 and NHBC). (Total tuition time: ± 21 hours)

LAW AND CONTRACT MANAGEMENT IV (LWC410T) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Architecture and Industrial Design*)
Contract law – basic concepts, such as contract documentation. Basic principles of South African common law. Arbitration. Construction law. Building contract. Principles of property law – forms of ownership. Tender procedures – forms of tender. Certificates. Sectional titles. Land Tenure Act. Principles of bankruptcy and liquidations. Nominated subcontractors. Laws governing the built environment. Case studies. (Total tuition time: ± 21 hours)

O

OFFICE PRACTICE: ARCHITECTURAL PRACTICE IV (OFP40PT) CONTINUOUS ASSESSMENT
(*Subject custodian: Department of Architecture and Industrial Design*)
The services and duties of the professional practitioner of architecture as defined by the Architectural Profession Act, 2000 (Act No. 44 of 2000) and the SACAP Board Notice 154 of 2009 (the Code of Professional Conduct). Specific themes include time as a resource, managing projects and clients, as well as post-completion responsibilities. (Total tuition time: ± 21 hours)



OFFICE PRACTICE: BUSINESS MANAGEMENT IV (OFF40QT)**CONTINUOUS ASSESSMENT****(Subject custodian: Department of Architecture and Industrial Design)**

Office organisation, including managing oneself, the team and the business in the architectural profession. Marketing and generating an income while establishing new business avenues. (Total tuition time: ± 10 hours)

P**PROJECT MANAGEMENT IV (PJG420T)****CONTINUOUS ASSESSMENT****(Subject custodian: Department of Architecture and Industrial Design)**

Management approaches. The business environment. Personnel management. Financial management. Risk analysis. Financial viability studies. IT integration. Decision-making and problem solving. Corporative communication. Small business management. Politics, ethics and social responsibility. Case studies. (Total tuition time: ± 14 hours)

S**STUDIO WORK: CONTRACT DOCUMENTATION IV (STW40PT)****CONTINUOUS ASSESSMENT****(Subject custodian: Department of Architecture and Industrial Design)**

A module integrated with Construction Methods and Materials to produce a complete set of working drawings on selected design projects. (Total tuition time: ± 224 hours)

STUDIO WORK: SPECIFICATION IV (STW40QT)**CONTINUOUS ASSESSMENT****(Subject custodian: Department of Architecture and Industrial Design)**

An introduction to the National Building Specifications (NBS) software package (or other approved software). Preparation of on-screen specifications for the building industry. Integrated with Contract Documentation. (Total tuition time: ± 15 hours)

