Please complete the right-hand column for EACH unit that you are applying for Advanced Standing in by providing details of EXACTLY where you covered these learning outcomes (unit code, unit name, weekly topic and assessment you undertook. If all the Learning outcomes are not met by your evidence, then AS will NOT be approved.

The Institute does NOT do block or unspecified advanced standing. This means that we do not give a set amount of units as Advanced Standing because you have a Diploma or Advanced Diploma – we only give unit for unit. In some cases, for a Vocational Diploma or Advanced Diploma, you may need several units to meet one unit on the degree.

We do not give Advanced Standing for 3rd year units.

More information is available in our Advanced Standing Policy and Procedure.

Failure to complete this form will result in your application being automatically rejected.

**First year units**

**ICT104 Fundamentals of computer system hardware and software**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Identify and describe key computer hardware and software components and their functions, including various computer operating systems
 |       |
| 1. Demonstrate an understanding of best practice in PC maintenance and associated handling and safety issues
 |       |
| 1. Demonstrate an understanding of computer assembly and configuration and associated troubleshooting
 |       |
| 1. Describe and discuss the basics of computer networking
 |       |
| 1. Demonstrate a familiarity with and an ability to appropriately use technological terms
 |       |
| 1. Demonstrate effective communication skills within a computer and technology environment.
 |       |

**NTW100 Introduction to computer networking**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss the principles of computer networks.
 |       |
| 1. Identify and describe key elements and components of networking systems
 |       |
| 1. Apply theoretical networking knowledge and the practical skills necessary to build a small network across a range of applications
 |       |
| 1. Identify and discuss key networking protocols and wireless technologies
 |       |
| 1. Describe and discuss the interaction between a router and remote networks
 |       |
| 1. Demonstrate an understanding of the concepts of static and dynamic routing and the implementation, verification, and troubleshooting of routing protocols
 |       |
| 1. Critically assess key security issues associated with networking.
 |       |

**GBU100 Professional Business Communications**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss the principal theories of communication and how they are applied to a business context
 |       |
| 1. Use and apply correct academic referencing
 |       |
| 1. Use and apply appropriate academic language and correct grammar, spelling, and punctuation
 |       |
| 1. Demonstrate effective research skills
 |       |
| 1. Critically analyse and evaluate arguments and information from different sources
 |       |
| 1. Identify and analyse the barriers to effective communication and identify how these may be overcome
 |       |
| 1. Explain how culture effects meaning and communication
 |       |
| 1. Apply effective oral presentation skills and proficiency in the development of effective academic argument
 |       |

**ICT101 Mathematics for computing**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Explain the basic concepts and applications of abstract algebra and logic, counting, set theory and number theory
 |       |
| 1. Use mathematical procedures and methods of proof, and recognise the circumstances in which these procedures and proofs apply
 |       |
| 1. Demonstrate the ability to solve discrete mathematics problems
 |       |
| 1. Communicate problems and solutions in writing, using expressions appropriate to the context of the problem
 |       |
| 1. Demonstrate an understanding of encryption and its applications in computing
 |       |

**NTW101 Principles of network administration**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss the roles of the network administrator and how effective network administration links to organisational need and efficiency.
 |       |
| 1. Demonstrate an understanding of the operations of, and differences between, key network operating environments.
 |       |
| 1. Demonstrate an understanding of network file systems and configure network file sharing protocols.
 |       |
| 1. Demonstrate an understanding of effective network performance management.
 |       |
| 1. Assess and/or develop effective institutional network administration policies and procedures.
 |       |
| 1. Perform essential data backup and print management functions.
 |       |
| 1. Demonstrate an understanding of key network security issues and apply appropriate network security settings.
 |       |

**ICT102 Foundations of programming**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Demonstrate an understanding of different programming languages and their environments
 |       |
| 1. Describe and discuss how computer programming can be used to solve business problems
 |       |
| 1. Demonstrate an understanding of the concepts associated with object orientation as an approach to data abstraction
 |       |
| 1. Describe and discuss the elements of good programming style
 |       |
| 1. Apply sound program analysis, design, coding, debugging, testing and documentation techniques to simple programming problems
 |       |

**ICT103 Introduction to telecommunications systems**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss the role of marketing in modern society
 |       |
| 1. Explain the key theories and principles of contemporary marketing practice
 |       |
| 1. Describe and discuss the key elements and functions of consumer behaviour and marketing research
 |       |
| 1. Demonstrate an understanding of the marketing mix and the four Ps of marketing: price, product, promotion and placement
 |       |
| 1. Apply marketing solutions to identified marketing problems through case study analysis
 |       |

**Second Year Units**

**ICT200 Cloud Computing**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss the fundamentals of cloud-based computing
 |       |
| 1. Describe and discuss how cloud computing contributes to modern business models and assisting in realising business strategy
 |       |
| 1. Demonstrate an understanding of cloud-based approaches such as Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS)
 |       |
| 1. Apply basic programming techniques for cloud-based computing
 |       |
| 1. Analyse and evaluate various vendor or proprietary cloud-based architectures
 |       |
| 1. Identify and analyse the potential for, and practicality of, developing cloud computing architectures for specific applications
 |       |

**NTW202 Mobile and wireless technologies**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss the development of mobile and wireless technologies
 |       |
| 1. Demonstrate a theoretical understanding of wireless LAN concepts and technology as well as the tools and configurations available
 |       |
| 1. Demonstrate an understanding of the WLAN standardisation along with the regulatory framework and associated regulatory bodies
 |       |
| 1. Apply the skills required to develop a WLAN network
 |       |
| 1. Identify and understand RF principals, antennae communications, WLAN protocols, WLAN traffic flow, and AP discovery
 |       |
| 1. Install, maintain, administer, troubleshoot and monitor mobile and wireless networks
 |       |
| 1. Analyse and evaluate security concerns and risks associated with mobile and wireless networks and associated devices
 |       |

**ICT201 Operating Systems and administration**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Analyse the advantages and disadvantages, and evaluate the efficacy of the most frequently used and important types of computer and network operating systems
 |       |
| 1. Demonstrate an understanding of the issues associated with computer operating systems including print management, data backup, security management, and multitasking.
 |       |
| 1. Perform basic configuration, administration, and management tasks associated with various computer operating systems including file sharing, user management, and basic programming functions.
 |       |
| 1. Demonstrate an understanding of how various operating systems manage technical functions such as memory management, process sychronisation, file management, and I/O system operation.
 |       |
| 1. Demonstrate an understanding of computer and network operating systems.
 |       |

**NTW201 Scalable IP networks**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Evaluate the uses of the current Alcatel-Lucent service router (SR) and the Alcatel-Lucent Ethernet service switch (ESS)
 |       |
| 1. Describe and discuss the purpose and operation of common Layer 2 technologies
 |       |
| 1. Describe and discuss the IP forwarding process and develop an IP address plan using IP subnetting and address summarization
 |       |
| 1. Explain the difference between static routes and dynamic routing protocols this was in an earlier unit XXX
 |       |
| 1. Configure static routes and dynamic routing in a single area OSPF network
 |       |
| 1. Explain the purpose and basic features of BGP, and the operation of the Transmission Control Protocol
 |       |
| 1. Describe and discuss multiprotocol label switching (MPLS) and how it can be used to create 'tunnels' across an IP network
 |       |
| 1. Discuss the MPLS-based VPN services: VPWS, VPLS and VPRN
 |       |

**NTW200 Implementing switched and routed networks**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Analyse and evaluate advanced features and concepts associated with switched and routed networks including network architectures, algorithms and interior and exterior routing protocols such as OSPF and BGP.
 |       |
| 1. Describe and discuss Network Address Translation (NAT) and configure a network to implement static and dynamic NAT.
 |       |
| 1. Analyse and evaluate congestion prevention policies at various OSI layers.
 |       |
| 1. Analyse and configure redistribution routing.
 |       |
| 1. Discuss multicast routing, border routing, and switching protocols and technologies.
 |       |

**GBU200 Business Ethics and Corporate Social Responsibility – NOTE: NO advanced standing is given for non-Bachelor studies (that is not for Diploma or Advanced Diploma studies)**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss key ethical theories and their application in the business environment
 |       |
| 1. Describe and discuss the concept of corporate social responsibility, its development, and the context in which it operates
 |       |
| 1. Describe and discuss the concept of 'triple bottom line accounting
 |       |
| 1. Demonstrate an understanding between concepts such as ethics, morals, and values
 |       |
| 1. Identify and critically assess the strategic implications of organisations adopting corporate social responsibility and business ethics
 |       |
| 1. Demonstrate an understanding of community and stakeholder expectations with regards to corporate social responsibility as well as the role of leaders in promoting an ethical corporate culture
 |       |
| 1. Identify examples of ethical business dilemmas and the ways they might be overcome
 |       |

**NTW203 Network Security**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Analyse and evaluate key security concepts such as trusted systems, multilevel security, trusted platforms, and security management
 |       |
| 1. Identify, analyse and evaluate threats to network security (including wireless and mobile networks) and networked information and the measures and tools that institutions take to overcome them
 |       |
| 1. Describe various anomaly detection techniques
 |       |
| 1. Describe and discuss the principles and operation of public key cryptography, symmetric key cryptography, and key distribution management
 |       |
| 1. Describe and discuss how to implement effective firewall technologies and intrusion prevention systems
 |       |
| 1. Install, troubleshoot, and monitor network security devices to maintain integrity, confidentiality, and availability of data and devices
 |       |
| 1. Develop and document an effective network security policy
 |       |

**ICT202 Enterprise virtualisation**

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| **Unit Learning Outcomes** | **Evidence** |
| 1. Describe and discuss the principles of enterprise virtualisation
 |       |
| 1. Evaluate an organisation's virtualisation requirements and plan for server virtualisation
 |       |
| 1. Install and configure virtualised servers in particular operating environments
 |       |
| 1. Create virtual machines and create and manage virtual hard disks
 |       |
| 1. Manage networking and storage issues in virtualised systems
 |       |
| 1. Analyse and evaluate the administration, security, and management issues and implications for virtualised enterprise systems
 |       |