



**UOW**  
COLLEGE  
AUSTRALIA

PATHWAYS TO  
UNIVERSITY OF  
WOLLONGONG

# Diploma of Information Technology

Course Codes:

1963 Diploma of Information Technology Fast Track (International)  
(CRICOS Code: 057233A)

3130 Diploma of Information Technology Fast Track (Domestic)  
(CRICOS Code: 117697A)

Year of issue:

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## Course Outline

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# **Diploma of Information Technology**

## **Course Outline**

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### **1 Course Description**

The UOW College Australia (UOWCA) Diploma of Information Technology (Fast Track) provides students with knowledge, technical skills and capabilities to prepare them for further studies and for employment in the Information Technology industry.

Tertiary skills development classes are embedded in all subjects in the Diploma of Information Technology (Fast Track), supporting students for successful participation in the second year of a UOW degree.

The Diploma provides pathways for entry into the Bachelor of Business Information Systems (BBIS), the Bachelor of Computer Science (BCompSc) or the Bachelor of Information Technology (BIT) at the University of Wollongong (UOW) with specified credit of up to 48 credit points for subjects in the compulsory core component of these degrees.

Diploma qualifications are located at level 5 of the Australian Qualifications Framework. The purpose of the Diploma qualification type is to qualify individuals who apply integrated technical and theoretical concepts in a broad range of contexts to undertake advanced skilled or paraprofessional work and as a pathway for further learning.

## 2 Graduate Qualities

The Diploma of Information Technology course is designed to assist students in developing the UOW College Australia Graduate Qualities. It helps students become:

1. **Informed:** Have a basic knowledge of an area of study and understand its issues. Know how to apply this knowledge.
2. **Independent Learners:** Begin to engage with new ideas and ways of thinking and critically analyse issues. Seek to extend knowledge through ongoing enquiry and active learning. Find and evaluate information, using a variety of sources and technologies. Acknowledge the work and ideas of others.
3. **Problem Solvers:** Demonstrate introductory levels of creative, logical and critical thinking skills to respond effectively to problems. Be flexible and thorough.
4. **Effective Communicators:** Articulate and convey ideas effectively using a range of media. Work collaboratively and engage with people in different settings.
5. **Responsible:** Understand how decisions can affect others and make ethically informed choices. Appreciate and respect diversity and act with integrity. Take responsibility for one's own learning and completion of assessment tasks.

## 3 Course Learning Outcomes

Graduates will be able to:

1. Apply theoretical and technical knowledge of information technologies to solve practical problems.
2. Perform analysis and design of systems to solve a range of problems.
3. Acquire, synthesise and integrate information relevant to a professional setting.
4. Think critically and creatively to identify better system solutions within business contexts.
5. Work collaboratively with others to solve information technology problems.

## 4 Course Learning Outcomes Mapped to Graduate Qualities

The table below shows how the graduate qualities are integrated into the course learning outcomes:

<b>Course Learning Outcomes/Graduate Qualities</b>	<b>1. Informed</b>	<b>2. Independent Learners</b>	<b>3. Problem Solvers</b>	<b>4. Effective Communicators</b>	<b>5. Responsible</b>
1. Apply theoretical and technical knowledge of information technologies to solve practical problems.	✓		✓	✓	
2. Perform analysis and design of systems to solve a range of problems.	✓		✓	✓	
3. Acquire, synthesise and integrate information relevant to a professional setting.	✓		✓		
4. Think critically and creatively to identify better system solutions within business contexts.		✓	✓	✓	
5. Work collaboratively with others to solve information technology problems.			✓	✓	✓

## 5 Course Structure and Subjects

**1963: DIPLOMA OF INFORMATION TECHNOLOGY (2 Session) (International)**

**3130: DIPLOMA OF INFORMATION TECHNOLOGY (Domestic)**

### SESSION 1

Subject Code	Subject Name ( <i>UOW Equivalent Subject Code</i> )	Credit Points	Contact Hours a Week
DPIT110 <sup>^</sup>	Fundamental Programming with Python ( <i>CSIT110</i> )	6	5
DPIT123	Computing and Cyber Security Fundamentals ( <i>CSIT123</i> )	6	5
DPIT114	System Analysis ( <i>CSIT114</i> )	6	5
DSSC107	Principles of Responsible Business ( <i>BUS 101</i> )	6	4
<b>Total Session 1</b>		<b>24</b>	<b>19</b>

### SESSION 2

Subject Code	Subject Name ( <i>UOW Equivalent Subject Code</i> )	Credit Points	Contact Hours a Week
DPIT115	Data Management and Security ( <i>CSIT115</i> )	6	5
DPIT121 <sup>^</sup>	Object Oriented Design and Programming ( <i>CSIT121</i> )	6	5
DPIT127	Networks and Communications ( <i>CSIT127</i> )	6	5
DPIT128	Introduction to Web Technology ( <i>CSIT128</i> )	6	5
<b>Total Session 2</b>		<b>24</b>	<b>20</b>

All Sessions in this course are delivered on UOW College session dates.

<sup>^</sup> DPIT110 Fundamental Programming with Python is a pre-requisite for DPIT121 Object Oriented Design and Programming. Students are required to achieve a minimum result of 50% in DPIT110 to enrol in DPIT121.

### Expected Course Workload

As a guide, the workload for your course is determined by the number of subjects you take each session. Attempting four subjects in a standard session is considered to be a fulltime load i.e. equivalent to working fulltime (35-45hrs a week).

Each subject in this course has designated contact hours where you are required to attend classes including lectures, tutorials, workshops or other structured learning experiences.

To be successful in this course you are also required to undertake independent learning activities outside of your scheduled classes, this includes:

- Preparing for classes: homework, readings and reviewing learning materials.
- Independently researching and/or practicing knowledge and skills.
- Completing all assessment tasks and studying for examinations.
- Attending learning support services.

## 6 Subjects Mapped to Course Learning Outcomes

Subject/Course Learning Outcomes	1. Apply theoretical and technical knowledge of information technologies to solve practical problems.	2. Perform analysis and design of systems to solve a range of problems.	3. Acquire, synthesise and integrate information relevant to a professional setting.	4. Think critically and creatively to identify better system solutions within business contexts.	5. Work collaboratively with others to solve information technology problems.
DPIT110 Fundamental Programming with Python	✓	✓	✓		
DPIT123 Computing and Cyber Security Fundamentals		✓	✓	✓	
DPIT114 System Analysis	✓	✓	✓	✓	✓
DPIT115 Data Management and Security	✓	✓	✓	✓	
DPIT121 Object Oriented Design and Programming	✓	✓	✓	✓	
DPIT127 Networks and Communications	✓		✓	✓	✓
DPIT128 Introduction to Web Technology	✓		✓	✓	
DSSC107 Principles of Responsible Business			✓		✓

# 7 Progression Guidelines

## Course Progression Requirements

1. To qualify for the award of the Diploma of Information Technology, students must achieve a minimum result of 50% for each subject in the Diploma.
2. Students who meet the requirements for the award of the Diploma can progress to the second year of the Bachelor of Business Information Systems or the Bachelor of Computer Science or the Bachelor of Information Technology with up to 48 points of UOW credit transfer.

Please refer to the Credit transfer arrangements page for more detailed information - <https://www.uowcollege.edu.au/courses-pathways/admissions-information/credit-transfer-arrangements/>

3. Students may exit the Diploma course early and enter the relevant degree ('Accelerated Exit') if they meet conditions. Please refer to the [UOW Admissions Procedures \(Coursework\)](#) document for more detailed information.

Note: Where a student has opted for Accelerated Exit – Incomplete Award, they will not be eligible for the Diploma award until they successfully complete the outstanding equivalent subjects in their UOW degree. Once a student has completed the equivalent subjects at UOW, the student can submit an [Application for Credit for Prior Learning](#) directly to UOW College for the Diploma qualification to be awarded.

## UOW Degree Pathways and Credit Transfer

- Bachelor of Business Information Systems (1838)
- Bachelor of Computer Science (766)
- Bachelor of Information Technology (1807)

#Articulation arrangement not available to international students

## **8 Entry Requirements / Admissions Guidelines**

Entry requirements for this course can be viewed online at:

<https://coursefinder.uow.edu.au/information/index.html?course=diploma-of-it-two-sessions-uow-college>

## **9 Assessment**

Students are required to complete a number and variety of assessment tasks related to their streams of study.

Each subject has a subject outline that is issued to students. Subject outlines contain an overview of subject objectives, an assessment schedule, a list of learning resources and a weekly topic outline. Subject outlines also contain an explanation of assessment components.

All assessment tasks with a weighting of 10% or greater have marking criteria and an answer/marketing guide.

All aspects of assessment are governed by Policy, Procedures and Guidelines, which can be viewed at: <https://www.uowcollege.edu.au/support-resources/policies-procedures/>

## **10 Quality Assurance**

The College applies formal quality assurance processes to its design of courses, subjects and their assessments. These processes include:

- Clear subject outlines that align with the objectives of the course and support consistent delivery of content.
- Mandatory inclusion of clear and appropriate marking criteria in assessment tasks.
- Moderation of marking of student assessment tasks, ensuring that the assessment criteria have been applied consistently and there is equity across individual markers.
- A regular schedule of audits on student assessment tasks using randomly-selected samples of student work; and
- The use of feedback from students and teachers to inform continuous improvement of curriculum, delivery, policies and procedures.

# 11 Subject Descriptions

## **DPIT110 Fundamental Programming with Python**

The broad aim of this subject is to develop in students an understanding of the fundamental principles of programming. The subject focusses on the object-oriented view of problem analysis and solving. It enables students to develop skills in the design and implementation of well-structured programs in a range of domains.

## **DPIT123 Computing and Cyber Security Fundamentals**

This subject aims to equip students with an understanding of fundamental computing knowledge. In addition, the subject aims to introduce students to key cyber security concepts and principles. To achieve these aims, topics covered in this subject include fundamental computing content such as the history of computing and the evolution of technology; concepts in information processing, computer architecture, and operating systems; and cyber security topics including forms of attack, detection, and prevention, cyber security policy and risk assessment.

## **DPIT114 System Analysis**

This subject provides an introduction to different techniques and technologies for understanding and specifying what a computer-based information system should accomplish. It examines the complementary roles of systems analysts, clients and users in a system development life cycle. Students will learn different fact-finding techniques to elicit system requirements and how to develop business models, data and process models, and object models representing a system. Students will also make use of a Computer Aided Software Engineering (CASE) tool to build those models that capture the specifications of a system.

## **DPIT115 Data Management and Security**

The subject investigates three major areas of modern data management systems: data modelling, data processing, and data security. The goal of the subject is to learn the fundamental concepts in data management, including conceptual modelling, the relational data model, processing of relational data with Structured Query Language (SQL), enforcing the concepts of data confidentiality, integrity, and availability data management systems. The subject develops skills in the design, implementation, processing, and security of data management systems. The subject covers the following topics in data security: discretionary access control, user management, enforcing data security and integrity. The subject also explains the important ethical issues associated with responsible disclosure, responsibility, liability, security weaknesses, and privacy in data management systems.

## **DPIT121 Object Oriented Design and Programming**

The aims of this subject are to consolidate and extend students' knowledge and skills in structured programming and to develop their understanding and practice of object-oriented programming. To achieve this aim, the subject will provide students with an opportunity to develop further programming skills and good coding style; develop skills in using the object-oriented concepts of encapsulation, inheritance, polymorphism, access control, overloading and messaging; and develop and display competency in the design and implementation of object-oriented programs to solve business problems.

## **DPIT127 Networks and Communications**

The subject will introduce students to the fundamentals of data communications and computer networks. Topics covered include different types of data and the history of data communications; signals, modulation and multiplexing; switching technologies and routing; network architectures: LANS, WANs and the Internet; Internet services, multimedia services, broadband services and Internet protocols; and emerging technologies: optical and wireless networks. The subject explains computer networking models that interconnect diverse communication systems, including the ISO reference model and the TCP/IP Suite.

## **DPIT128 Introduction to Web Technology**

This subject will introduce students to the fundamental technologies of the World Wide Web and its many commercial applications. The topics for this subject include HTML5, CSS3, Web Forms, XML and its definition languages, XSLT, JavaScript, AJAX and JSON. Within the scope of these topics, students will build working websites that utilise dynamic and event-driven content along with contemporary CSS styling. This subject will also explore the methods available for integrating server-side resources into client-side HTML interfaces.

## **DSSC107 Principles of Responsible Business**

This subject provides students with the framework for practising responsible and ethical commerce. The objectives of this subject include developing an understanding of how to practise responsible and ethical commerce, utilising a conceptual toolkit. The topics covered include the history of contemporary systems of commerce and ethical and social responsibility in commerce. Material includes subject areas such as anti-corruption, environment, globalisation, human rights and labour. Students will examine these issues from a variety of theoretical and practical perspectives and apply them to contemporary commercial contexts.

## 12 Version Control Table

Version Control	Date Effective	Approved By	Amendment
1.0	12/09/2019	UOWCA Academic Board	Initial release – 2020 delivery
2.0	25/11/2021	UOWCA Academic Board	Replace WUCB130 with WUCB113 as an outcome of 2020 ECAC. Course title amended to include 'Fast Track'.
2023_1.0	01/12/2022	UOWCA Academic Board	Replace DPIT111 with DPIT110 and DPIT113 with DPIT123 as an outcome of UOW changes to first year in Bachelor Courses. New Issue 2023
2023_2.0	19/12/2022	Academic Program Manager	Revert to original subject schedule (DPIT111 and DPIT113) before course commencement for Autumn 2023
2023_3.0	05/09/2023	UOWCA Academic Board	Update subject schedule - Replace DPIT111 with DPIT110 and DPIT113 with DPIT123 as an outcome of UOW changes to first year subjects in Bachelor of IT. For commencement in Summer 2023.
2024_1.0	01/12/2023	No Change	New release 2024
2024_1.1	25/06/2024	Program Manager Academic	Update to the URL links
2025_1.0	28/11/2024	UOWCA Academic Board	WUCB113 replaced with DSSC107
2025_2	12/08/2025	Program Manager Academic	Updated Accelerated Exit information Included CRICOS Code
2025_3	29/08/2025	Program Manager Academic	Update to Progression Guidelines
2026_1	23/02/2026	Program Manager Academic	New Release 2026