

Program Information

The Diploma of Computing and IT Studies (IT) provides students with an understanding of fundamental concepts and necessary skills in programming, networking and databases, enabling students to articulate into the range of IT degrees at Adelaide University. Listed below are the modules comprising the Diploma of Information Technology. You may have been granted exemption from some modules depending on your academic results. These will be listed in your offer letter.

All Diploma of Computing and IT Studies (IT) students are required to complete Language Development Module 1 (LDM100) in their first trimester (unless exempted). Although LDM100 does not count towards the study load or GPA, a non-graded pass is required for graduation.

Stage 1 - 8 Modules		Study Load	Units
ACCT01	Accounting (A)	25%	4.5
ACCT02	Accounting (B)	25%	4.5
LCOM01	Language & Communication (A)	25%	4.5
LCOM02	Language & Communication (B)	25%	4.5
MTHF01	Fundamentals of Mathematics (A)	25%	4.5
MTHF02	Fundamentals of Mathematics (B)	25%	4.5
ITS001	Information Technology Studies (A) <i>(Pre-requisite for COMP1039)</i>	25%	4.5
ITS002	Information Technology Studies (B)	25%	4.5
DESN01	Design (A)^	25%	4.5
DESN02	Design (B)^	25%	4.5
PSY01	Psychology (A)^	25%	4.5
PSY02	Psychology (B)^	25%	4.5

^ This is an elective module that may not be offered in all study periods.

Stage 2 - 8 Modules		Study Load	Units
COMP1039	Problem Solving and Programming <i>(Pre-requisite for COMP1046/ INFS1025)</i>	25%	4.5
COMP1046	Object Oriented Programming	25%	4.5
INFS1025	Data Driven Web Technologies	25%	4.5
INFS1026	System Requirements and User Experience <i>(Co-requisite with INFT1031)</i>	25%	4.5
INFT1012	Network Fundamentals	25%	4.5
INFT1016	Information Technology Fundamentals <i>(Pre-requisite for INFS1025/ INFS1026/ INFT1031)</i>	25%	4.5
INFT1030	Design Thinking Studio	25%	4.5
INFT1031	System Requirements Studio <i>(Co-requisite with INFT1026)</i>	25%	4.5

Please refer to the following website for information on Pathways:

<https://www.eynesbury.edu.au/adelaide-university/diploma-programs/computing-it/>

All classes (unless otherwise specified) are held at City East Campus (CE)

Program Outline

Tertiary Preparation

Language Development Module 1

This module is designed to provide students with opportunities to review, develop and practice the English language systems and skills required to successfully participate in an undergraduate degree program.

Stage 1

Information Technology Studies (A)

The study of ITS provides students with opportunities to develop an understanding of computer technology and networking, including how the Internet works. Students acquire knowledge and skills related to information technology studies and learn how to program basic webpages using HTML and CSS.

Students acquire knowledge and skills related to programming using Python to draw graphics with the Python turtle module.

Information Technology Studies (B)

This module provides students with opportunities to develop an understanding of Artificial Intelligence, and its impact on humanity and the way we work. Students acquire knowledge and skills related to databases and the use of MS Access. Students also learn skills in terms of using Microsoft Excel and how to use formulae for computing and analysing data in Excel.

Fundamentals of Mathematics (A)

This module prepares students for undergraduate modules in Business. It provides students with a good foundation of knowledge and understanding of the relevant Mathematics topics for future modules. It also provides opportunities to enhance problem-solving skills.

Fundamentals of Mathematics (B)

This module prepares students for undergraduate modules in Business.. It provides students with a good foundation of knowledge and understanding of the relevant Mathematics topics for future modules. It also provides opportunities to enhance problem-solving skills.

Accounting (A)

In this module students will learn how to create, maintain and analyse a detailed and accurate system that displays the finances of a business or organization.

Students acquire knowledge and skills related to the accounting process for organisation and business applications. They understand the processes involved in generating, recording, classifying, analysing, interpreting, and reporting accounting information for effective decision-making. They learn how to interpret the financial information of an accounting entity and how to convey this information to interested users.

Accounting (B)

This module provides students with opportunities to manage their own financial affairs and to develop an understanding of the ethical considerations that affect financial decision-making. Students acquire knowledge and skills related to the accounting process for organisation and business applications. They understand the processes involved in generating, recording, classifying, analysing, interpreting, and reporting accounting information for effective decision-making. They learn how to interpret the financial information of an accounting entity.

Language & Communication (A)

The purpose of this module is to help English as an Additional Language (EAL) students communicate effectively in the cultural and academic context of an Australian University. The module aims to improve students' written and spoken command of English to a level appropriate for entry into first year undergraduate studies.

Emphasis will be placed on reading and interpreting academic texts as well as learning to write formally and objectively with appropriate and consistent referencing. Students will develop their listening skills and learn to convey information, explain their point of view clearly, and substantiate their argument.

This module is supported by the work in International Studies and Clear Thinking and Logic. These modules will provide students with the necessary language, research and critical enquiry skills which will be valuable in their progression through university and tertiary studies.

Language & Communication (B)

The purpose of this module is to help English as an Additional Language (EAL) students communicate effectively in the cultural and academic context of an Australian University. The module aims to improve students' written and spoken command of English to a level appropriate for entry into first year undergraduate studies.

Students will read and respond to a range of persuasive and information texts and create a range of multimodal texts for different purposes and audiences. They will also develop their speaking and skills and learn to convey information, explain their point of view clearly, and substantiate their argument.

This module is supported by the work in International Studies and Clear Thinking and Logic. These modules will provide students with the necessary language, research and critical enquiry skills which will be valuable in their progression through university and tertiary studies.

Program Outline

Stage 2 (8 Modules)

Data Driven Web Technologies

In this module you will learn to design and construct a relational database for a small organisation. This course aims to develop your problem-solving skills and introduce you to Relational Databases, SQL Programming, and basic web implementation.

- *Pre-requisite: Problem Solving and Programming & Information Technology Fundamentals*

Problem Solving and Programming

This module focuses on modelling, and the utilisation of tools in the problem-solving process. You will also be introduced to programming and will gain the necessary skills to design, implement, test and debug a program.

- *Pre-requisite: Information Technology Studies (A)*

Object Oriented Programming

This course uses a combination of teaching techniques: (1) workshops where you will work in groups using what is called team-based learning, (2) practicals to help develop your programming skills, and (3) tutorials to introduce you to principles and concepts.

- *Pre-requisite: Problem Solving and Programming*

Network Fundamentals

The course will provide you with the fundamental knowledge and skills for developing small to medium sized enterprise networks.

System Requirements Studio

Upon completion of this course you will have achieved graduate qualities that will be highly desirable to employers such as being an effective problem solver, being able to work autonomously and collaboratively as well as communicating effectively in professional practice.

- *Pre-requisite: Information Technology Fundamentals*
- *Co-requisite with System Requirements and User Experience*

System Requirements and User Experience

The outcomes of this course will help you address a problem statement by developing a set of requirements and user experience designs through end-user and stakeholder engagement.

- *Pre-requisite: Information Technology Fundamentals*
- *co-requisite with System Requirements Studio*

Design Thinking Studio

This module invites you to develop your professionalism. You will learn to communicate effectively with each other, tutors and real-world clients. Design Thinking is an approach to making innovative technologies that others have a need for.

Information Technology Fundamentals

This module will assist you to develop a solid understanding of Information Technology concepts that will enable you to make decisions in relation to IT infrastructure issues.