

DIPLOMA OF INFORMATION TECHNOLOGY

Program Information

The Diploma of Information Technology 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 the University of South Australia. 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.

Students that do not study PRG001 will be required to enrol in Program Design in IT (PDI001) in their first trimester. All IT students are required to complete the tertiary preparation module Language for Study (LGS001) in their first or second trimester. Although LGS001 and PDI001 do not count towards study load or GPA, a non-graded pass is required for the program of study.

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

Stage 1		Study Load	Units
ESS001	Essential Study Skills	25%	4.5
ITN002	Information and New Media Technologies	25%	4.5
PRG001	Programming (Prerequisite for COMP1039)	25%	4.5
CPP002	Communication, People, Place and Culture	25%	4.5
ARC002	Academic Research and Critical Enquiry	25%	4.5
MST001	Mathematics and Statistics	25%	4.5
DES001	Design	25%	4.5
Elective	Choose from: Media & Society, Early Career Development, Business Studies 1, Human Biology, Physics 1	25%	4.5
Stage 2			Units
COMP1039	Problem Solving and Programming (Prerequisite for COMP1046/INFS1025)	25%	4.5
INFT1030	Design Thinking Studio (Non graded pass)	25%	4.5
INFT1016	Information Technology Fundamentals (Prerequisite for INFS1025/INFS1026)	25%	4.5
INFT1012	Network Fundamentals	25%	4.5
COMP1046	Object Oriented Programming	25%	4.5
INFS1025	Data Driven Web Technologies	25%	4.5
INFS1026	Systems Requirements and User Experience (Corequisite with INFT1031) * Weeks 1-5 and 10 -12	25%	4.5
INFT1031	System Requirements Studio (Non graded pass) * Weeks 6-9 only	25%	4.5

Program Outline

Tertiary Preparation

Program Design for IT

This module develops logical thinking skills needed for programmers to successfully think through the steps and solve programming problems. You will be introduced to pseudocode and flow charts to help organise steps in a logical manner for programming algorithms.

Language for Study

This module develops language skills for students to communicate confidently, express ideas effectively and gain a sound understanding of the level of language proficiency required to attend an Australian university.

Stage 1

Academic Research and Critical Enquiry

This module will introduce you to the basic principles of critical thinking. It also assists you in developing skills needed for the tertiary study environment, including academic reading, listening and note-taking, as well as written formats and referencing.

Information and New Media Technologies

You will be introduced to the use of the Internet, social media and associated technologies in society and business. Through the module, you will utilise Microsoft Office along with online tools for effective communication and discuss the ethical and security issues related to the use of Information Communication Technologies.

Communication, People, Place and Culture

In this unit you are introduced to the basic principles of communication and its role in society and culture. You will investigate the effects of different forms of verbal and non-verbal communication and describe cultural influences on the communication process.

Design

This module provides you with an introduction to the basic principles of design and their application to various publications. You will use the design process and different software applications to publish material for both print and electronic media and analyse the messages communicated through different design elements.

Programming

This module introduces you to the basic principles of programming and their use in writing simple programs. You will use the systems development life cycle to write programs combining different data types and programming structures, and learn techniques to test successful outcomes.

Mathematics & Statistics

This module introduces you to the mathematical concepts required for further studies, particularly in statistics. You will learn to use

fundamental arithmetic and algebra to solve problems, and apply statistical processes and concepts including sampling techniques and different forms of presentation.

Essential Study Skills

In this module students will be provided with an understanding and application of essential study skills, covering independent learning skills and styles, active listening, presentation and group work skills.

Stage 1 Elective Modules

Select one elective module from the options below.

Media & Society

This module analyses the use of media in society and its role in cultural life. You will investigate the different factors, which shape cultures today and discuss how the media affects popular culture, interpretations of the world and contributes to cultural identity.

Early Career Development

The module provides students with a professional guide to career planning to ensure success in their future working lives. The module includes understanding modern workplaces and practices; the responsibilities of different agents in the work environment, and the acquisition of knowledge and skills related to employment including interviews and applying for jobs. This course aims to bridge understandings and to prepare students for the professional and wider world.

Business Studies 1

This unit provides you with an understanding and application of foundation concepts in the business disciplines of management and leadership, finance, marketing and human resources. You will discuss current trends, opportunities, and issues that impact on contemporary business and learn to use appropriate communication for the business environment.

Human Biology

This module will introduce you to the basic concepts of human biology as a foundation for further study in this area. You will develop an understanding of the main body systems and the associated biology, and an awareness and appreciation of the human body in a personal, social and medical context.

Physics 1

In this module you are introduced to the basic concepts of Physics, with a particular focus on motion and heat. You will learn appropriate equations and units for demonstrating different concepts and conduct experiments to analyse and test theories.

Stage 2

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: Programming

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.

Network Fundamentals

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

Pre-requisite: Information Technology Fundamentals

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

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 and Information Technology Fundamentals

Systems 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. The course runs in weeks 1-5 and 10-12, in conjunction with System Requirements Studio.

Pre-requisite: Information Technology Fundamentals and corequisite with System Requirements Studio

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. This course runs from weeks 6-9, in conjunction with Systems Requirements and User Experience. This is a Non Graded Pass (NGP) course. You are required to pass all the three assessments to pass the course.

Co-requisite: Systems Requirements and User Experience

saibt.sa.edu.au

South Australian Institute of Business and Technology

University of South Australia City East Campus

Brookman Building, North Terrace

Adelaide SA 5000 Australia

T +61 8 8302 2021

E saibt@navitas.com

SAIBT is part of the Navitas Group
CRICOS Provider codes: SAIBT 02193C; University of South Australia 00121B; Diploma of Information Technology 081520E