

## ISCG5424: Information Systems Concepts

Course number:	ISCG5424	Level: 5	Credits:	15
Main programme:	BCS		Delivery:	One Semester
Pathway:	General (Compulsory)		Hours directed:	54
Other programmes:	DipITS (Compulsory) GDCMP (Elective)		Hours self-directed:	96
Prerequisites:	DipITS: ISCG4500		Total hours:	150
Co-requisites:			Number of weeks:	16 weeks
Restrictions:	ISCG5410			
Other:				

### NZQA Level Descriptor:

	Knowledge	Skills	Application
5	The student has broad operational or technical and theoretical knowledge within a specific field of work or study and selects and applies ...	<ul style="list-style-type: none"> <li>a range of solutions to familiar and sometimes unfamiliar problems,</li> <li>a range of standard and non-standard processes relevant to the field of work or study with ...</li> </ul>	<ul style="list-style-type: none"> <li>complete self- management of learning and performance within defined contexts,</li> <li>some responsibility for the management of learning and performance of others.</li> </ul>

### Course aim:

To provide students with an introduction to information systems and the role they play within industry. The main purpose of this course is to enable a student to engage with a range of information system elements and to make choices for future specialist study.

### Learning Outcomes:

1. Explain the fundamentals of systems theory
2. Explain the Systems Development Lifecycle and system requirements
3. Analyse business situations requiring problem solving
4. Elicit system requirements using a variety of techniques
5. Model the requirements using a variety of techniques

### Topics:

Systems theory, stages in the SDLC (requirements analysis, systems analysis, systems development, systems implementation and systems maintenance), data flow diagrams, activity diagrams, requirement elicitation techniques, selected modelling tools.  
Other topics as negotiated.

### Assessment:

Students will be advised of all matters relating to summative assessment at the outset of the course. Overall course grades will represent a balanced assessment of achievement in relation to all stated learning outcomes.

Weighting	Nature of assessment	Learning outcomes
60%	Assignment(s) : for a given case study, students identify the problem, use requirement elicitation techniques to understand the case study, and use modeling techniques to model the requirements	3, 4, 5
40%	Test(s) – Students undertake one or more theoretical and/or practical tests to show that they understand the underlying concepts	1, 2, 3, 4, 5