1. Qualification	2. Programme Title	3. UCAS Code	4. Programme Type
HND/C	Computing	104G/	EdExcel

5. Main Purposes and Distinctive Features of the Programme

To provide students with the knowledge and skills required to contribute to the analysis, design, testing and development of software systems .

To develop the students' ability to adopt new methods and technology and to keep abreast of developments in hardware and software.

To give a sound education in computing and its application, with an emphasis on implementation.

To develop and improve the students' interpersonal and communication skills particularly the investigative, formal writing, formal presentation and group working skills that are required for the workplace.

Distinctive Features
Progression to graduate qualification in Computing.
HND available in part-time mode for students who can fit into HNC and degree provision.

6. What a graduate should know and be able to do on completion of the programme

Knowledge and understanding in the context of the subject(s)

1 Understanding the stages of the systems development life cycle and their implications

2 Knowledge of a programming language which utilises the Object Oriented paradigm.

3 Awareness of current technologies for supporting user interaction over the WWW

Cognitive skills in the context of the subject(s)

1 Application of a structured methodology

2 Design software compliant with HCI

3 Synthesis of database structure, problem analysis and technical programming knowledge

Subject-specific practical/professional skills

1 Competence in the correct structuring of data to be stored in a relational database

2 Perform systems analysis of business problems and design of software for the commercial environment

3 Design software to implement standard data structures and associated methods

Other skills (e.g. key/transferable) developed in subject or other contexts

1 Capacity to investigate problems

2 Communicate effectively orally and in writing

3 Able to work as part of a team
Numerical and quantitative skills
Make use of a range of information sources
Select and utilise appropriate methods for presenting information
Use a range of thought processes

7. Qualities, Skills & Capabilities Profile

The educational and training goals of the programme seek to develop and demonstrate the following qualities, skills, capabilities and values in its graduates

A Cognitive	B Practical	C Personal & Social	D Other
Problem Solving	Analysis and Design Skills	Team-working	
Application of Concepts	Programming Skills	Communication	
Powers of evaluation	QA and Testing Skills	Time management	
Transfer skills/knowledge	Database Skills		
Design new products	Technical documentation		
Flexibility of thought	Evaluation of hardware and software		
	Use of software tools and operating systems		

8a. Duration and Structure of Programme/Modes of Study/Credit Volume of Study Units

HND - 2 Years full-time organised on a 2 semesters per year basis and comprising 240 credits.

Level 2 Modules	<u>Core Modules</u> CST2503 Database Theory and Practice CST2511 Systems Analysis CST2502 Data Structures and Algorithms	<u>(Options</u> normally 20 credits each)	<u>Project</u> (20 credits) CST2511 Individual project with self-managed integration, extension and practical application of knowledge (compulsory)
Level 1 Modules	LCT1019 Networking Basics LCT1023 Core Skills CST1010 Information Systems LCT1000 Internet 1 CST1205 Introduction to Programming CST1206 Programming and Design CST1202 Visual Programming 1 CST1203 Computerised Financial Systems		

8b. Duration and Structure of Programme/Modes of Study/Credit Volume of Study Units

HNC - 2 Years part-time organised on a 2 semesters per year basis and comprising 160 credits.

Level 2 Modules	Core Modules CST2503 Database Theory and Practice	(Options normally 20 credits each) CST2502 Data Structures and Algorithms or CST2511 Systems Analysis	Project (20 credits) 20 credit individual project with self-managed integration, extension and practical application of knowledge (compulsory)
Level 1 Modules	LCT1023 Core Skills LCT1019 Networking Basics CST1010 Information Systems CST1205 Introduction to Programming CST1206 Programming and Design		

9. Learning, Teaching and Assessment Strategy

Learning and Teaching Methods

A combination of lectures, supervised and unsupervised practical work, directed study, case study, group-working and a project

Assessment Methods

Assessments are linked to the learning outcomes for each module.
Types of assessment include:
Examinations
Coursework reports
Coursework to produce a program/ model a system
Project to produce and document a piece of software

Assessment Classification System

A Pass is awarded for the achievement of all outcomes against the specified criteria.

10. Other Information

Date programme first offered

September 2003

Admissions Criteria

Five GCSE passes (Grade C or better) including English, Mathematics and a Science subject and 60 UCAS tariff points including one A2 level pass.

Acceptable alternatives would be :-

Edexcel/BTEC National Diploma/Certificate (pass),

Irish Leaving Certificate,
International Baccalaureate,
Scottish Highers,
AGNVQ or completion of
a suitable kitemarked access course.

Non Standard Entry

Relevant work/life experience and interview
Other cases dealt with by admissions tutor on an individual basis

Achievement at Pass level will demonstrate: knowledge and comprehension of relevant practice, theories or techniques the ability to solve problems using given methods coherence in the quality of outcomes A Merit level will demonstrate: the application of appropriate knowledge, and understanding of relevant practices, theories or techniques the identification of problems and the use of appropriate methods to solve them clarity and coherence in the quality of outcomes A Distinction level will demonstrate the application of knowledge and understanding of a range of relevant practices, theories or techniques the identification of problems, their causes and the selection of appropriate methods to solve them clarity, coherence and originality in the quality of outcomes <u>Honours Classification Bands</u> N/A	<u>Indicators of Quality and Standards</u> Validated by panel with two external subject specialists External verifier Internal yearly quality monitoring cycle

MAPPING OF LEARNING OUTCOMES TO MODULES

HND/C Computing

	K1	K2	K3	S1	S2	S3	C1	C2	C3	O1	O2	O3
Level 1 Modules												
LCT1023			X							X	X	
CST1203					X	X		X	X	X		X
CST1010	X		X	X								X
LCT1000			X					X		X	X	
LCT1019			X						X			X
CST1205	X	X			X	X	X		X	X		
CST1206	X	X			X	X		X	X			
CST1202		X		X		X		X	X			X
Level 2 Modules												
CST2503		X		X	X		X		X	X		X
CST2511	X			X	X		X		X	X	X	
CST2502	X	X		X		X	X		X	X		X
CST2515	X	X		X	X		X		X	X	X	X

Kn, Sn, Cn, On are Knowledge, Subject-specific, Cognitive and Other learning outcomes respectively. Refer to the Programme Specification for a definition of each learning outcome.

An X at a row/column intersection indicates that the specified module supports the specified learning outcome.

Mapping of Assessment Methods to Modules
HND/C Computing

	CW%	EX%	ICA%	PRA%	PRE%	IS%
LEVEL 1 MODULES						
LCT1023	**100**					
CST1203	**50+50**					
CST1010	**50+50**					
LCT1000	**70**	**30**				
LCT1019	**30**	**50**		**20**		
CST1205			**100**			
CST1206			**100**			
CST1202	**50**		**50**			
LEVEL 2 MODULES						
CST2503	**50**	**50**				
CST2511	**50**	**50**				
CST2502	**40+60**					
CST2515	**20**				**50**	**30**

Assessment Type Codes

CW Coursework
EX Examination
ICA In-class assessment
PRA Practical
PRE Presentation
IS Independent Study