

STUDENT HANDBOOK

**BSc (HONS) CREATIVE COMPUTING WITH/WITHOUT
DIS/DAS**

PROGRAMME: 6592

SCHOOL OF COMPUTING AND INTELLIGENT SYSTEMS

FACULTY OF COMPUTING AND ENGINEERING

MAGEE CAMPUS

UNIVERSITY OF ULSTER

COURSES' CO-ORDINATOR: DR HEATHER SAYERS

SEPTEMBER 2010 ENTRY

PROGRAMME AIMS AND OBJECTIVES

Programme Title:

BSc (Hons) Creative Computing with/without DIS/DAS

The overall aim of the course is to provide a broadly-based education in creative computing technologies which will produce graduates equipped with the knowledge and skills necessary to work within the creative industries. The course provides the opportunity for students to specialise in Multimedia Computer Games Design (the Games stream) or in Multimedia Design (the Design stream) and aims to prepare students for a career in their chosen creative discipline.

In support of this, the course has the following objectives:

- to develop an ability to analyse computing problems and formulate creative solutions, coupled with the ability to critically evaluate the approach and techniques used.
- to provide opportunities for the development of practical skills in applied computing in a business/industrial context (DIS version only).
- to develop key skills and enterprise competencies to support the student's progression into a career in the creative technologies industries or further academic study.

The inclusion of an industrial placement year prepares candidates for working careers in the creative computing industries and sets their academic studies into the context of the variety of employment possibilities.

COURSE CONTENT

The School of Computing and Intelligent System's website, <http://scis.ulster.ac.uk>, contains detailed information on the course with links to Module Descriptions for each level of study. Years 1 and 2 contain compulsory modules including Programming, Design (from both Graphics and Games perspectives), Multimedia Authoring and Human-Computer Interaction. Year 3 is spent on placement, and Year 4 offers a choice of advanced modules in addition to a final year dissertation.

The following Programme Specification details the structure of the course, its Learning Outcomes and how these Learning Outcomes are achieved in each year of study.

PROGRAMME SPECIFICATION

COURSE OR HONOURS SUBJECT TITLE:

BSc Hons Creative Computing with Diploma in Industrial Studies/Diploma in Area Studies

BSc Hons Creative Computing

PLEASE NOTE: This specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he or she takes full advantage of the learning opportunities provided. More detailed information on the specific learning outcomes, content and the teaching, learning and assessment methods of each module can be found at <http://scis.ulster.ac.uk>

1	AWARD INSTITUTION/BODY:	University of Ulster
2	TEACHING INSTITUTION:	University of Ulster
3	LOCATION:	Magee Campus
4	ACCREDITED BY:	N/A
5	FINAL AWARD:	Bachelor of Science
6	MODE OF ATTENDANCE:	Full-time and Part-time
7	SPECIALISMS:	Computing
8	COURSE/UCAS CODE:	G451
9	DATE WRITTEN/REVISED:	Effective from 2010/11

10 EDUCATIONAL AIMS OF THE COURSE

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11 MAIN LEARNING OUTCOMES

The following reference points were used to inform the development of the programme and its learning outcomes:

- the University's Vision and core strategic aims, teaching and learning strategy and policies;
- current research or other advanced scholarship carried out by academic staff;
- the QAA Computing subject benchmark statement;
- requirements of professional, statutory or regulatory bodies, e.g. British Computer Society, ACM.
- national and University qualifications and credit frameworks;

The course provides opportunities for students to achieve and demonstrate the following learning. Successful students will be able to:

KNOWLEDGE AND UNDERSTANDING OF THE SUBJECT

Demonstrate knowledge and understanding of:

- K1** Basic engineering and computing principles which are fundamental to multimedia games and multimedia design: programming fundamentals, human-computer interaction and web development.
- K2** The economic, environmental, human and social impacts of creative computing.
- K3** Current developments in a selection of advanced software techniques, technologies and applications.
- K4** The tools enabling the design and development of creative solutions.

Learning and Teaching Methods: Lectures, tutorials, seminars and practical sessions.

Assessment Methods: Coursework and written unseen examinations.

INTELLECTUAL QUALITIES

- I1** Analyse problems and design creative solutions.
- I2** Integrate computing theory with the available technologies.
- I3** Integrate information and data from a variety of sources.
- I4** Relate professional, legal, moral and ethical issues to the development and use of multimedia systems.
- I5** Apply computer science fundamentals to the comprehension and evaluation of advanced creative computing technologies.

Learning and Teaching Methods: Lectures, tutorials, seminars and practical sessions.

Assessment Methods: Coursework related to case studies and projects, written unseen examinations, workbooks, presentations, project reports and dissertation.

PROFESSIONAL / PRACTICAL SKILLS

- P1** Design and carry out a programme of practical exercises using multimedia technologies.
- P2** Prepare and interpret system problem specifications and reports.
- P3** Work as member of a team, recognising the different roles within a team and the different ways of organising teams.
- P4** Communicate technical information to technical, management, user, and academic audiences.
- P5** Operate computing equipment effectively, based on an understanding of creative technologies.
- P6** Develop hands-on experience of solving software problems in a business/industrial context (DIS only).

Learning and Teaching Methods: Lectures, tutorials, seminars and practical sessions.

Assessment Methods: Placement report assessment (DIS/DAS only), problem-based coursework, workbooks, project reports and dissertation.

TRANSFERABLE/KEY SKILLS

- T1** Learn in both familiar and unfamiliar situations making effective use of information retrieval skills and learning resources.
- T2** Communicate effectively, using various media and with a variety of audiences.
- T3** Effectively use general information technology facilities.
- T4** Manage one's own learning and development including time management, organisational skills and awareness of entrepreneurship issues.
- T5** Appreciate the need for continuing professional development in recognition of the need for life-long learning.

Learning and Teaching Methods: Lectures, tutorials, seminars and practical sessions.

Assessment Methods: Placement report assessment (DIS/DAS only), workbooks, project vivas, reports and dissertation.

11 PROGRAMME LEARNING OUTCOME MAP

Please Note: The matrix displays only the measurable programme outcomes and where these are developed and assessed within the modules offered in the programme.

MODULE			OUTCOMES																			
TITLES	LEVEL	CODE	K1	K2	K3	K4	I1	I2	I3	I4	I5	P1	P2	P3	P4	P5	P6	T1	T2	T3	T4	T5
Introduction to Computer Games	4	COM176	√	√	√	√	√	√				√		√		√			√	√		
Programming I	4	COM136	√			√	√	√				√	√			√				√		
Introduction to Design and Communication	4	DES121	√	√	√	√	√		√	√		√	√		√				√	√	√	√
Programming II	4	COM139	√			√	√	√	√		√	√	√			√		√		√	√	√
Internet and Multimedia Technology	4	COM134		√	√	√	√	√		√		√		√		√				√	√	√
Typographic Design NB: *Design stream only	4	DES110	√	√	√	√	√			√	√	√			√	√			√	√	√	√
Introduction to 3D NB: *Games Stream only	4	DES124	√	√			√	√		√		√		√	√	√		√		√		
Multimedia Authoring	5	COM315	√	√		√	√	√			√	√	√	√		√				√		√
Professional Issues	5	COM417		√						√					√			√			√	√
Visual Programming	5	COM321	√	√	√	√	√		√		√					√			√	√	√	√
Graphics Design Print NB: *Design stream only	5	DES306	√	√			√	√					√		√				√	√	√	
Animation Design NB: *Games stream only	5	DES316	√		√	√	√	√				√				√			√	√		
Human Computer Interaction	5	COM350	√	√			√	√		√		√	√			√		√		√	√	√
Multimedia Games Development	5	COM429	√	√	√	√	√	√				√		√		√			√	√		
Graphics Design Screen NB: *Design stream only	5	DES317	√	√	√		√	√		√			√		√	√		√	√		√	
3D Product and Character Simulation NB: *Games stream only	5	DES311	√		√	√	√	√				√				√			√	√		
Industrial Placement (DIS only)	5	COM367	√	√		√	√	√	√	√				√	√	√	√	√	√	√	√	√
Research Studies and Project Management	6	COM529		√	√				√	√			√		√			√	√		√	√
Final Year Project	6	EEE521		√	√	√	√	√	√	√	√		√		√	√		√	√	√	√	√
Innovation: Graphic Design NB: *Design stream only	6	DES507		√	√	√	√	√	√	√	√		√		√	√		√	√	√	√	√
Innovation: Animation/Moving	6	DES515		√	√	√	√	√	√	√	√		√		√	√		√	√	√	√	√

Image NB: *Games stream only																						
TITLES	LEVEL	CODE	K1	K2	K3	K4	I1	I2	I3	I4	I5	P1	P2	P3	P4	P5	P6	T1	T2	T3	T4	T5
Intelligent Multimedia	6	COM556		√			√		√	√	√	√		√	√	√		√	√	√		
Multimedia Technologies	6	COM531		√		√	√	√	√			√				√			√	√		√
Optional																						
Interactive Multimedia Games Development	6	COM631		√	√	√	√	√			√	√				√		√		√		√
Applied Mobile Technologies	6	COM594		√	√	√	√		√		√	√		√		√				√		
Minor Design Projects	6	DES511		√	√	√	√	√	√	√	√		√		√	√		√	√	√	√	√
NB: *Design stream only																						

12 STRUCTURE AND REQUIREMENTS FOR THE AWARD

The course is normally of four years' duration. Years 1, 2 and 4 are spent at the university. Year 3 is spent on industrial placement or study abroad. Levels 4 and 5 consist of a set of compulsory modules enabling students to achieve the basic competencies in creative computing and their chosen Design focus. Year 1 consists of 120 credit points at Level 4, and Year 2 consists of 120 credit points at Level 5.

All students normally spend Year 3 on placement, working in some aspect of the creative industries for a minimum period of 26 weeks. On satisfactory completion of the placement period the student is eligible for the award of Diploma in Industrial Studies (DIS). A student who satisfactorily completes Year 3 in study abroad is eligible for the award of Diploma in Area Studies (DAS).

Year 4 consists of a mixture of optional and compulsory modules – 120 credit points in total, all at Level 6. The compulsory modules enable the student to engage in a substantive piece of work comprising both theoretical and practical elements at an advanced level. Students can choose from the optional modules offered for each stream.

Satisfactory completion of each pre-final year of the course is normally a pre-requisite for progression to the subsequent year (i.e. a candidate must pass all modules in each year of study to proceed to the next – see table below and Section 16). Satisfactory completion of Year 4 leads to the award of the degree with Honours. Pass requirements and Honours classifications are detailed in Section 16.

The language of instruction is English.

BSc Hons Creative Computing with DIS

Level 4	Computing		DES Design	DES Games
Semester 1	COM176 Introduction to Computer Games	COM136 Programming I	DES121 Introduction to Design and Communication	DES121 Introduction to Design and Communication
Semester 2	COM134 Internet and Multimedia Technology	COM139 Programming II	DES110 Typographic Design	DES124 Introduction to 3D Design

Level 5	Computing			DES Design	DES Games
Semester 1	COM315 Multimedia Authoring	COM417 Professional Issues (10 points)	COM321 Visual Programming (10 points)	DES306 Graphic Design (Print)	DES316 Animation Design
Semester 2	COM350 Human Computer Interaction	COM429 Multimedia Games Development		DES317 Graphic Design (Screen)	DES311 3D Product and Character Simulation

Level 5	Computing (Both streams)
Year 3 Placement	COM367 Industrial Placement (60 points) or DAS if studying abroad.

Level 6	Computing		DES Design	DES Games
Semester 1	COM529 Research Studies and Project Management (10 points)	EEE521 Final Year Project*	DES507 Innovation: Graphic Design/Image Making	DES515 Innovation: Animation/Moving Image
Optional.....	COM594 Applied Mobile Technologies	COM631 Interactive Multimedia Games Development	DES511 Minor Design Projects	

Level 6	Computing
Semester 2	COM556 Intelligent Multimedia
Compulsory	COM531 Multimedia Technologies

NB: Modules are worth 20 credit points unless noted otherwise in the diagram.

*The final year project spans both semester 1 and semester 2, with 10 credits completed in semester 1, followed by 20 credit points in semester 2.

13 SUPPORT FOR STUDENTS AND THEIR LEARNING

Students and their learning are supported in a number of ways:

- An Induction Programme for new students (all years) is held throughout the first weeks of each semester. This Induction Programme includes talks by the Courses' Coordinator, the PDP Coordinator, the Placement Tutor, and includes tours of the Learning Resource Centre (LRC) given by LRC staff.
- The Courses' Coordinator is available at specified hours for advice.
- A Course website provides an electronic version of the Student Handbook (including this document), an electronic notice board with daily notices and links to other on-line resources (Academic Affairs, Careers, Library, timetables etc).
- Students are supported by extensive library and other learning resources.
- The School of Computing and Intelligent Systems is resourced by a number of state-of-the-art computer laboratories with a wide range of software. New software is introduced as required per semester.
- All modules have an associated website with on-line learning support material (module specification, lecture notes, useful web links etc).
- Every student is allocated an email account and has full (24hours, 7 days a week) access to the computing laboratories and the Internet.
- Each student is allocated a personal Studies Advisor who is available for academic and academic-related advice.
- Placement units are dedicated to preparing students for placements and finding placement opportunities for students.
- Students are visited on placement by academic staff.
- Advertised availability hours for academic staff.
- Course notice board.
- Every student receives a hard copy of the Student Handbook (incorporating this document) which contains details of the following university services:
 - Career Development Centre
 - Information Services Department
 - Student Support Department
 - Sport and Recreation Department
 - International Office (for international students)
 - Students' Union
 - Chaplaincy

14 CRITERIA FOR ADMISSION

Applicants must satisfy the University's general entry requirements as set out in the prospectus or demonstrate their ability to undertake the course through the accreditation of prior experiential learning (APEL). The initial offer standard may vary from year to year. See prospectus entry.

Year 2 Entry: Direct entry to Year 2 is only possible for suitably qualified candidates. Entry to the part-time course is at Level 5 (Year 2) only.

15 EVALUATING AND IMPROVING THE QUALITY AND STANDARD OF TEACHING AND LEARNING

Mechanisms for review and evaluation of teaching, learning, assessment, the curriculum and outcome standards:

- Initial validation and regular revalidation exercises.
- Module reviews (including student input).
- Annual staff reviews.
- Regular Course Committee reviews.
- Course accreditation by external bodies.
- Annual Subject Monitoring report prepared by the Courses' Coordinator.
- Review of external examiner views expressed in assessment moderation, during Examination Board visits and in annual reports.

- Peer teaching observations and feedback.
- Review of employer views expressed through annual feedback surveys of employers of placement students and at meetings of the Faculty Industrial Liaison Panel.
- The National Student Survey.
- Student performance data and career progression.

Committees with responsibility for monitoring and evaluating quality:

- Staff Student Consultative Committee.
- Course Committee.
- Board of Examiners.
- School Board (includes student members).
- Faculty Academic Affairs Committee (includes student members).
- University Teaching and Learning Committee.

Mechanisms for gaining student feedback on the quality of their learning experience

- Staff-Student Consultative Committee.
- Student representatives on School and Faculty boards.
- Student Questionnaires.
- Placement reports.

Staff development includes:

- Updating in the subject through research and scholarship.
- Membership of professional bodies.
- University Staff Development Programme.
- Membership of the Higher Education Academy.
- Consultancy.
- Research and Knowledge Transfer.
- Representation on external working groups and committees.

In addition, there are University strategies for teaching and learning.

16 REGULATION OF STANDARDS

Assessment rules

- Pass mark for modules is 40%.
- Degree classifications:
 - 1st class: Overall mark of at least 70%.
 - 2:1: Overall mark of at least 60% and less than 70%.
 - 2:2: Overall mark of at least 50% and less than 60%.
 - 3rd class: Overall mark of at least 40% and less than 50%.
 - The award of DIS/DAS requires an overall mark of 50% in the placement year. An overall mark of 70% is required for the award of 'Pass with Commendation'.
- Honours classification derives 100% from Level 6.

External examiners

There is one external examiner.

External examiners are academic subject or professional experts appointed from outside the University. Their key functions are to contribute to the assurance of the standards of the award and the fair treatment of students. They are involved in the moderation and approval of assessments and the moderation of the marking undertaken by internal examiners.

17 INDICATORS OF QUALITY RELATING TO TEACHING AND LEARNING

- A large number of staff are members of the Higher Education Academy.
- All Computing courses were subject to a Faculty Subject Review during 2002, and participated in a Discipline Audit Trail (DAT) during an Institutional audit in 2005.
- In the 2008 Research Assessment Exercise the Faculty of Computing and Engineering was ranked highly in Unit of Assessment 25 (Computer Science).

- All staff hold (or if not, are required to achieve) a postgraduate certificate in university teaching (PGCUT/PGCHET).
- The School has attracted external funding for teaching and learning initiatives, including the Wireless Broadband project (2003-2006).

Placement and Career Opportunities

Students spend Year 3 in relevant and supervised employment referred to as industrial placement. The first two years of the Programme are designed to provide the students with the knowledge and expertise they will need to extract maximum benefit from the placement experience.

Preparation for Placement/Employment

In addition to exploring the various aspects of the placement year and its relationship with other elements of the Programme, students are prepared for the application and selection procedures associated with placement and, ultimately, employment. This includes advice on researching the market, completion of application forms, and preparation for interview. Much of this preparation takes place in Year 2 during a 'Placement Preparation' module (not formally timetabled). However, all Year 1 and 2 modules contribute to the desired portfolio of skills and in particular, the teamwork aspects will help to develop important inter-personal and group skills that are of increasing importance within the commercial environment.

There is a wide range of placement opportunities in Northern Ireland, Great Britain and the Republic of Ireland, and from time to time some placements overseas. We will find several employers willing to consider you for placement. Selection is by competitive interview by the employer concerned. They will pay your interview expenses. There is no maintenance grant or loan during the placement year; instead you will receive a proper salary. The placement lasts for about 48 weeks. Students have reported in glowing terms on the value of the placement experience, and their placement employers have offered several eventual permanent positions. Similarly placement employers have reported very favourably on our students.

For the student, placement should ideally provide appropriate training and work based in a well organised team with a significant element of computing. It must provide a genuine opportunity for the student to develop towards professional competence. The Faculty of Computing and Engineering has built up contacts with many employing organisations that are in a position to provide suitable placements. While the precise nature of placements will vary from employer to employer, it is intended that students are initially given close supervision and guidance and are progressively given more responsibility as the placement proceeds. Before the end of placement students should be contributing as a full employee of the company. During placement each student is supervised by an industrial supervisor from the employing company and an academic supervisor from the Faculty of Computing and Engineering.

Normally, each student will receive at least two visits from an academic supervisor. However, special arrangements such as telephone, e-mail or video conferencing may be used to contact those students who are placed in geographically distant locations. These media may also be used to supplement the formal academic visits to other students if necessary.

The experience gained and the associated personal developments are subsequently drawn on during the final year of the BSc Programme. In some cases the final year project may stem directly from projects that have been identified during the placement year. Successful completion of the industrial placement is recognised by the award of the Diploma in Industrial Studies. Placements also help the Faculty to provide graduates with the qualities that employers require. The visits of academic supervisors to students on placement provide an ideal opportunity to obtain a view of the Programmes from an industrial perspective. The links with industry, which placement promotes, also help the Course Committee to keep abreast of changing industrial requirements and often lead to other joint ventures such as custom-built training Programmes, Knowledge Transfer Partnerships and other collaborative research.

Placement offers an opportunity to use and enhance the skills developed during the first two years of the Programme in a work-based context. Each student's placement experience will be different

depending on the employer but each placement is vetted by the University to ensure it offers a worthwhile experience. Within the Faculty, there have been many instances of students taking up a full-time post with their placement employer after graduation.

In addition to developing 'computing' skills, placement often provides opportunities for students to acquire other transferable skills such as working as part of a team, interacting with clients, business awareness etc.

“Key skills” are qualities of graduates that are greatly desired by today’s employers. They include the ability to write written reports or give oral presentations. Opportunities are provided throughout the Programme to develop these important qualities, in particular through group assignment work included in several modules and the opportunities offered through placement. Often assignments will include marking criteria that assess a student’s ability in one or more key skills, for example, by awarding a mark for the effectiveness of the individual as part of a group project.

The Placement Tutor

The BSc programme has a member of academic staff known as a Placement Tutor who is responsible for:

- Establishing and maintaining good relations with placement providers;
- Finding new placements as required;
- Preparing students for the placement experience;
- Administering the process whereby students are placed;
- Collating the assessment returns at the end of the placement year;
- Making recommendation regarding each student’s overall performance and progress.
- The Programme Placement Tutor is a member of a Faculty of Computing and Engineering Placement Group chaired by a Faculty Placement Co-ordinator. This group seeks to ensure close collaboration in the work of various Programme placement tutors.

Career Opportunities

Students from this Programme may enter a broad range of possible careers. For example, they may go on to become technical software developers, Web application designers, HCI consultants or systems analysts. Further study routes are also possible through MRes, MPhil and PhD Programmes for those wishing to conduct detailed research into specific aspects of computer science.

Careers advice is formally provided by the Careers Service. See <http://careers.ulster.ac.uk/> for more information.

THE PROGRAMME TIMETABLE AND WEBSITE

The Programme timetable will be distributed at enrolment or induction and can also be viewed via the School of Computing and Intelligent System’s website at: <http://scis.ulster.ac.uk>. This website provides a repository of information for all the undergraduate courses at Magee and links to all the relevant on-line resources.

DATES OF ATTENDANCE/EXAMINATIONS/VACATIONS : 2010/11

Introductory period	Monday 13 September 2010 - Friday 17 September 2010
<u>Autumn Semester</u>	Monday 20 September 2010 – Friday 21 January 2011
Christmas vacation	Monday 13 December 2010 – Monday 3 January 2011
Examinations begin	Wednesday 5 January 2011
<u>Spring Semester</u>	Monday 24 January 2011 – Friday 27 May 2011
Easter vacation	Monday 18 April 2011 – Friday 29 April 2011
Revision week	Tuesday 3 May 2011 – Friday 6 May 2011
Examinations begin	Monday 9 May 2011
<u>Summer Semester</u>	Monday 25 July 2011 – Friday 16 September 2011
<u>Supplementary Exams</u>	_Wednesday 17 August 2011 – Thursday 25 August 2011

PROGRAMME MANAGEMENT

Courses' Co-ordinator (Course Director for all Undergraduate Courses)

Name	Office	Email	Telephone	Comments
Dr Heather Sayers	MG121C	hm.sayers@ulster.ac.uk	75148	Senior Lecturer & Courses' Coordinator

The Teaching Team consists of:

Name	Office	Email	Telephone	Comments
Professor Liam Maguire	MS127	lp.maguire@ulster.ac.uk	75605	Head of School
Professor Paul McKeivitt	MS112	p.mckeivitt@ulster.ac.uk	75433	Professor of Digital Multimedia
Dr Laxmidhar Behera	MS107	l.behera@ulster.ac.uk	75276	Reader
Dr Shyam Chakraborty	MS135	ss.chakraborty@ulster.ac.uk	75126	Reader
Dr Girijesh Prasad	MS137	g.prasad@ulster.ac.uk	75645	Reader
Dr Kevin Curran	MS130	kj.curran@ulster.ac.uk	75565	Senior Lecturer
Dr Tom Lunney	MG121D	tf.lunney@ulster.ac.uk	75388	Senior Lecturer
Dr Liam McDaid	MS016	lj.mcdaid@ulster.ac.uk	75452	Senior Lecturer
Mr Derek Woods	MS134	dn.woods@ulster.ac.uk	75380	Senior Lecturer
Dr Ammar Belatreche	MS104	a.belatreche@ulster.ac.uk	75158	Lecturer
Mr Michael Callaghan	MS132	mj.callaghan@ulster.ac.uk	75771	Lecturer
Dr Sonya Coleman	MS133	sa.coleman@ulster.ac.uk	75030	Lecturer
Dr Joan Condell	MS131	j.condell@ulster.ac.uk	75024	Lecturer
Mr Martin Doherty	MG121A	m.doherty@ulster.ac.uk	75552	Lecturer
Dr Peter Kelly	MG121E	pm.kelly@ulster.ac.uk	75293	Lecturer
Mr Aiden McCaughey	MG126	a.mccaughey@ulster.ac.uk	75131	Lecturer & Placement Officer
Dr Sandra Moffett	MS015	sm.moffett@ulster.ac.uk	75381	Lecturer
Mrs Mairin Nicell	MG127	ma.nicell@ulster.ac.uk	75007	Lecturer
Ms Maeve Paris	MG040	m.paris@ulster.ac.uk	75212	Lecturer
Dr Jose Santos	MG035	ja.santos@ulster.ac.uk	75034	Lecturer
Dr NH Siddique	MG037	nh.siddique@ulster.ac.uk	75340	Lecturer
Dr Zumao Weng	MG050	zm.weng@ulster.ac.uk	75358	Lecturer
Dr Shane Wilson	MG038	s.wilson@ulster.ac.uk	75527	Lecturer

Support Staff:

Name	Office	Email	Telephone	Comments
Dr Caitriona Carr	MG121B	c.carr@ulster.ac.uk	75003	Computer Training Officer
Mr Paddy McDonough	MS034	p.mcdonough@ulster.ac.uk	75322	Technical Services Engineer
Mr Bernard McGarry	MG132	bg.mcgarry@ulster.ac.uk	75644	Network Assistant
Mr Neill McDonnell	MF143/MS030	n.mcdonnell@ulster.ac.uk	75554	Technician

Administrative & Secretarial Staff:

Name	Office	Email	Telephone	Comments
Mrs Brenda Plummer	MS126	bl.plummer@ulster.ac.uk	75605	Secretary to Head of School
Mr Stephen Friel	MG048	s.friel@ulster.ac.uk	75148	Secretary to the Courses' Coordinator
Ms Michelle Stewart	MG048	m.stewart@ulster.ac.uk	75382	Secretary

Day-to-day administration of each Programme is the responsibility of the Courses' Coordinator. All major decisions in the running of the Programme are taken at Course Committee meetings.

Course Committee

The Course Committee is essentially a committee formed by those members of academic staff who have teaching responsibilities on the Programme as well as the nominated Studies Advisors. The Course Committee reports to the Faculty's Academic Affairs Committee, which in turn reports to the Faculty of Computing and Engineering Board. This is the normal route for all of the Faculty's Course Committee meeting minutes.

Student progression (i.e. assessing the performances of students and determining whether or not they should be allowed to proceed to the next stage of the Programme) is the responsibility of the Board of Examiners. The Board of Examiners is essentially the Course Committee plus an External Examiner.

The Programme Committee meets on a regular basis - normally at least once per semester, although other special meetings may be arranged should a need be identified.

Support for Students

The University's **Teaching and Learning Support Charter** outlines the University's commitments to students and its responsibilities in relation to teaching and learning. This document is available for viewing at: <http://www.ulster.ac.uk/quality/qmau/t&l/supportcharter.pdf>

Student-Staff Consultative Committee

Part of the Course Committee meetings is devoted exclusively to the consideration of general student problems associated with the Programme which are reported from the Staff-Student Consultative Committee (SSCC). An elected student from each year of the Programme is invited to participate as Class Representatives on the SSCC. These elected representatives are invited to express the views of their peers in relation to the organisation and delivery of the Programme. In the past, issues addressed have included:

- Resourcing;
- Comments on the delivery assessment of each module;
- Workloads;
- General Feedback
- Other general programme-related matters

The Staff-Student Consultative Committee is a formal forum for students to express their opinions. The Faculty's policy is to encourage the early identification of problems and to bring these to the attention of staff as soon as possible.

Assessment

Criteria for assessing and grading course work

These are specific to each module and will be provided when each assignment is issued.

You will receive information and feedback on your performance in coursework and examinations. You should note that marks and grades are subject to a process of moderation, which ensures their validity and reliability, and that no result is finalised until confirmed by the Board of Examiners.

Assessment methods used may include:

Formal timed limited, unseen examination paper;
Open book class test;
Group project;
Individual project;
Written report; Presentation.

SCHOOL OF COMPUTING AND INTELLIGENT SYSTEMS PROCEDURES FOR MONITORING STUDENT ATTENDANCE (MODULE OR OTHER NON-MODULE SPECIFIC EVENT)

1. Attendance will be monitored on all modules across all years of study (undergraduate and postgraduate). Attendance at other non-module specific events (e.g. general tutorials, induction sessions, meetings with Advisors of Study) will also be monitored.
2. Formal responsibility for attendance monitoring at the module level and the maintenance of evidence lies with the Module Coordinator. Module Coordinators will ensure that timely records of student attendance in an accessible format¹ are maintained. The Head of School will ensure that staff member(s) are nominated with corresponding responsibilities for the other designated non-module specific events.
3. At the start of each module², Module Coordinators will ensure that students are:
 - a) reminded of their general attendance obligations³;
 - b) advised of any additional module-specific attendance requirements⁴;
 - c) reminded of the resources available to them for informing them of non-attendance or other related issues⁵;
 - d) advised as to how attendance records for the module will be assembled. They will identify (for example):
 - The range of classes at which attendance records will be taken (e.g. all lectures and lab classes; lab classes only; selected classes)
 - The mechanism(s) employed (e.g. manual roll-call, use of technology such as Turning Point, WebCT engagement monitoring, combination of methods).

Members of staff assigned corresponding responsibilities for the other designated non-module specific events will provide corresponding information for their events.

4. All staff responsible for monitoring attendance will reflect regularly on the student attendance (and progress where appropriate) within their remit.
5. Module Level or other non-Module specific event.

Where a member of staff identifies a student's attendance profile as giving rise for concern (without reasonable explanation and in the absence of appropriate supporting documentation), they will invoke the School's process for investigation of Student non-attendance. This will involve the member of staff advising the student's Studies Advisor and the student's Course/Subject Director of their concerns. The student's Studies Advisor will first try to establish the reasons for the student's non-attendance. If this is unsuccessful the Studies advisor will inform the student's Course/Subject Director who will arrange for the reasons for the student's absences to be investigated, meeting with the student if appropriate. Should a student's attendance continue to give rise for concern the student's Course/Subject Director will advise the Head of School who will formally communicate with the student inviting them to discuss the reason(s) for the recurring

¹ Note that a particular module may have students from a number of different courses/programmes.

² This may be done efficiently and consistently via a standard note within a Module Handout form or within WebCT.

³ For example, quoting the Student Charter, Course Regulations and other relevant sources

⁴ For example, talks by guest speakers, site visits etc. Submission of coursework may also be included.

⁵ For example, NA1 and EC1 forms which are available via the Student Portal

absences. Details of any meetings with a student will be recorded and placed on the student's file.

6. Failure to Submit Coursework

Where a student has failed to submit a piece of coursework (without reasonable explanation and in the absence of appropriate supporting documentation) the Module Coordinator will advise the student, and his/her Adviser of Studies and Course/Subject Director that a mark of zero has been awarded for the work as per University Policy. Module Coordinators should use non-submission of coursework in conjunction with a student's module attendance profile to support invoking the School's process for investigation of student non-attendance or referring the student to their Course/Subject Director (as described under Point 5).

7. Staff will produce summary reports of attendance upon request from a Course/Subject Director and will also produce a final summary report on completion of the module.

PROGRAMME REGULATIONS

UNIVERSITY OF ULSTER SCHOOL OF COMPUTING AND INTELLIGENT SYSTEMS UNDERGRADUATE COURSE REGULATIONS

1. COURSE TITLES

COURSE TITLE	CODE
Bachelor of Science (with Honours) in Creative Computing with Diploma in Industrial Studies/ Diploma in Area Studies FT/PT	6592

Note part-time (P/T) versions of all the Bachelor of Science courses are available but for efficiency the University system only generates a related course code when a student enrolls on the programme.

2. MODE OF ATTENDANCE

Full Time and Part Time

3. DURATION

FULL-TIME SANDWICH:

Normally 4 years (6 semesters of study and placement year) or 5 years (if student enters at Level 3 (8 semesters of study and placement year).

FULL-TIME INTERCALARY: Normally 4 years (8 semesters of study including year of study abroad) or 5 years if the student enters at Level 3 (10 semesters of study including year of study abroad).

PART-TIME:

A minimum of 3 years and a maximum of 6 years (12 modules, at the rate of one or two per semester).

4. LOCATION

Magee Campus

5. FACULTY

Computing and Engineering

6. ADMISSION REQUIREMENTS

Applicants must:

- (b) satisfy the University's general entry requirements and subjects must include Mathematics at least Grade C at GCSE level.

In addition, individual courses may have higher entry requirements set by the Course Committee and the Faculty.

or

- (b) provide evidence of their ability to undertake the programme through the accreditation of prior experiential learning.

See prospectus entry for each programme.

7. EXEMPTIONS

- 7.1 Studies pursued and examinations passed in respect of other qualifications awarded by the University or by another university or other educational institution, or evidence from the accreditation of prior experiential learning, may be accepted as exempting candidates from part of an approved programme provided that they shall register as students of the University of Ulster for modules amounting to at least the final third of the credit value of the award at the highest level.

8. PLACEMENT/STUDY ABROAD

During their placement year candidates are expected to adhere to the normal attendance practices at their place of employment. Each student is supervised by an industrial supervisor from the employing company and an academic supervisor from the Faculty.

Assessment of placement is on the basis of four elements. Overall performance on placement is collated by the Placement Tutor taking into account the elements listed above with weightings as indicated:

Academic Assessment (First & Second visits)	30%
Employer Assessment	20%
Professional Practice (Logbook & Technical Report)	20%
Reflection (Student Final Report)	30%

A candidate on placement who is unable to complete the placement year due to illness or other circumstances may, at the discretion of the Board of Examiners, be permitted to proceed to the final year of the course, and may be awarded the DIS provided that the minimum requirement of 25 weeks has been completed along with all assessments.

To be awarded the DAS, a candidate on placement abroad must complete the minimum requirement of 25 weeks and complete all assessments.

Exemption from Placement

Exemption from the placement requirement will be awarded only in the most exceptional circumstances. To be so exempted a candidate must satisfy the Board of Examiners that he/she has acquired appropriate work experience which the course committee considers equivalent to placement. A candidate must submit an application for exemption which must include a report (approximately 2,000 words) outlining the extent and level of the work experience already obtained, together with a report from his/her employer(s). The application will be assessed by a sub-committee consisting of the Course Director and the Placement Tutor, which will then make a recommendation to the Board of Examiners. An interview with the candidate may form part of the assessment process. A candidate who is exempted from placement will not be eligible for the award of Diploma in Industrial Studies or Diploma in Area Studies. Part-time students do not do a placement year, and are not eligible for the awards of DIS or DAS.

Unplaced Students

- A student who is unable to obtain placement may, at the discretion of the Board of Examiners and in exceptional circumstances only, be permitted to proceed directly to the final year of the course.
- A student who is unable to obtain placement may, at the discretion of the Board of Examiners, be permitted to obtain leave of absence in order to continue seeking a suitable placement.
- A student who is unable to obtain placement and who, in the opinion of the Board of Examiners, has not shown sufficient effort in obtaining placement may be required to withdraw from the course.

- A student who does not complete an appropriate placement will not be eligible for the award of Diploma in Industrial Studies or Diploma in Area Studies.

9. ATTENDANCE REQUIREMENTS

- 9.1 Students are expected to attend all classes associated with the programme and be punctual and regular in attendance.
- 9.2 A student who has not been in attendance for more than three days through illness or other cause must notify immediately their Studies Adviser or the Courses' Co-ordinator. The student shall state the reasons for the absence and whether it is likely to be prolonged. Where the absence is for a period of more than five working days, and is caused by illness which may affect their studies, the student shall provide appropriate medical certification in accordance with University regulations.
- 9.3 Students who are absent without good cause for a substantial proportion of classes may be required to discontinue studies, in accordance with University regulations.

10. RULES GOVERNING STUDENT CHOICE

- 10.1 Students enrolled for a Single Honours degree undertake an integrated programme of study primarily in Computer Science, Electronics and Computer Systems, Computer Games Development or Multimedia Computer Games. Students enrolled for a Major/Minor Honours degree undertake a programme of study with a two-thirds/one-third balance between two subjects. Students enrolled for a Joint Honours degree (Main) undertake a programme of study of equal weight in two subjects.

11. EXAMINATION AND ASSESSMENT

- 11.1 The performance of candidates shall be assessed by the Board of Examiners in accordance with the Regulations Governing Examinations in Programmes of Study.
- 11.2 Candidates shall be assessed in the modules for which they have enrolled in each year of study. At the discretion of the Board of Examiners candidates may be required to attend a viva voce examination.
- 11.3 Within each module candidates shall be assessed by a combination of coursework and examination in accordance with the table at section 18.
- 11.4 The pass mark for the module shall be 40%. Where a module is assessed by a combination of coursework and examination a minimum mark of 35% shall be achieved in each element.
- 11.5 FOR PROGRAMMES INCLUDING THE DIS/DAS AWARD: the pass mark for the placement/intercalary year is 50%; a mark of 40% is sufficient for progression to the next stage of the programme.

12. SUBMISSION OF COURSEWORK

- 12.1 Coursework shall be submitted by the dates specified by the Course Committee.
- 12.2 Students may seek prior consent from the Course Committee to submit coursework after the official deadline; such requests must be accompanied by a satisfactory explanation, and in the case of illness by a medical certificate. This application shall be made to the Courses' Co-ordinator.
- 12.3 Coursework submitted without consent after the deadline shall not normally be accepted.

13. PROGRESS

13.1 Subject to 14 hereof, candidates are required to pass all modules in each year of study in order to proceed to the next. Progress from semester 1 to semester 2 is automatic.

Part-time students may proceed from semester to semester, unless they have accumulated such failures as to prohibit them from proceeding to the subsequent level of the course. To proceed from level to level they are subject to the same regulations as full-time students

14. CONSEQUENCES OF FAILURE

14.1 Candidates who fail to satisfy the Board of Examiners in assessment may be permitted at the discretion of the Board to re-present themselves as specified in 15.2 for one or more supplementary examination and repeat such coursework or other assessment requirements as shall be prescribed by the Board. Such candidates may be exempted at the discretion of the Board from the normal attendance requirements. Where candidates are required to repeat coursework or to take a supplementary examination the original mark in the failed coursework component or examination shall be replaced by a mark of 40% or the repeat mark whichever is the lower for the purpose of calculating the module result, except in the DIS/DAS year where the maximum mark allowed shall be 50%.

14.2

In each year, other than the final year, the consequences of failure shall normally be as follows:

Failure at the first attempt:

Failure in modules with an overall value up to and including 60 credit points	Repeat specified examinations and/or coursework in the failed modules (examinations August)
Failure in modules with an overall value of between 60 and 80 credit points	Repeat specified examinations and/or coursework in the failed first semester module(s) (examinations January) and of specified examinations and/or coursework in the second semester modules (examinations May) with or without attendance OR withdraw from the course.
Failure in modules with an overall value of more than 80 credit points	Withdraw from the course.
Failure by candidates in year 2 of sandwich courses	Exceptionally second year students on sandwich courses may be permitted to commence the placement period, pending a requirement to represent themselves for supplementary written examinations or to repeat coursework.
Failure at the Second Attempt Failure in modules with an overall value up to and including 20 credit points	Provided that the module(s) are not prerequisite(s), which must be passed, proceed to next year and repeat once only specified examination(s) and/or coursework in the failed module(s) at the next examination period (January or May).
Failure in modules with an overall value up to and including 40 credit points (except as above)	Repeat once only specified examination(s) and/or coursework in the failed module(s) at the next examination period (January or May or August if semester already repeated) with or without attendance (progress to next year not permitted).
Failure in modules with an overall value of more than 40 credit points	Withdraw from the course.

Consequences of failure in placement year (DIS):

Failure at the First Attempt:

Failure in project	Resubmit project by a date specified by the Course Committee. (Maximum mark not to exceed 50%.)
Failure in placement	Repeat <i>once only</i> all or part of placement.

Failure at the Second Attempt:

Failure in project	Repeat <i>once only</i> the project. (Maximum mark not to exceed 50%.)
Failure in placement	Withdraw from the Programme.

Consequences of failure in intercalary year (DAS)

Failure at the First Attempt	Repeat <i>once only</i> the study period in whole or in part OR take specified examinations and/or coursework. (Maximum mark not to exceed 50%.)
Failure at the Second Attempt	Withdraw from the programme OR repeat <i>once only</i> specified examinations and/or coursework. (Maximum mark not to exceed 50%.)

14.3 Failure in the Final Year (Honours degree)

In the final year the consequences of failure shall normally be as follows:

Failure in modules with an overall value up to and including 40 credit points	Repeat <i>once only</i> specified examination(s) and/or coursework in the failed module(s) in consideration for Honours classification (examinations August).
Failure in modules with an overall value of more than 40 credit points	Withdraw from the programme. Candidate may be considered for a linked AB exit award if appropriate.

15. CLASSIFICATION OF FINAL RESULT

- 15.1 The table at section 18 indicates the contribution of each final year module to the final award. The weighting of each module's contribution to the overall mark shall be determined by its credit value.

NOTE THAT: LEVELS 3/4/5 ASSESSMENT RESULTS DO NOT CONTRIBUTE TO THE FINAL HONOURS DEGREE RESULT.

15.2 Classification of Final Result (Honours degree)

The following percentages shall be used to determine candidates' overall gradings:

Class I	At least 70%
Class II (division i) (Ili)	At least 60% and less than 70%
Class II (division ii) (Ilii)	At least 50% and less than 60%
Class III	At least 40% and less than 50%

15.3 Classification of Associate Bachelor's Exit Award

The overall results of candidates shall be based on their performance in all Level 5 modules only. The weighting of each module's contribution to the overall mark shall be determined by its credit value.

The following shall be the minimum percentages acceptable in determining the overall gradings of candidates.

Pass with Commendation	60%
Pass	40%

15.3.1 Classification of Diploma in Computer Systems

(Exit award for Level 3: BSc Hons Computer Science and BEng Hons Electronics and Computer Systems only)

All modules contribute to the final result. The table at section 18 indicates the contribution of each module to the exit award. The weighting of each module's contribution to the overall mark shall be determined by its credit value.

Candidates who successfully complete the year will normally proceed to Year 1 of the BSc Hons Computer Science programme or the BEng Hons Electronics and Computer Systems programme. Candidates who wish to discontinue their studies may leave with a Diploma in Computer Systems.

Where candidates choose to take the exit award, the following shall be the minimum percentages acceptable in determining the overall gradings of candidates.

Pass with Commendation	60%
Pass	40%

15.3.2 Award of Diploma in Industrial Studies OR Diploma in Area Studies

The following shall be the minimum percentages used in determining the overall gradings of candidates in the Diploma.

Pass with Commendation	70%
Pass	50%

16. ILLNESS AND OTHER EXTENUATING CIRCUMSTANCES

16.1 In any year other than final year:

The Board of Examiners may in the case of candidates who are prevented by illness or other sufficient cause from taking or completing the whole or part of the assessment during the programme, or whose results are substantially affected by illness or other sufficient cause, permit the candidates to complete, take, or repeat the assessment in one or more modules at an approved subsequent date.

16.2 Final year (Honours Degree):

The Board of Examiners may in the case of candidates who are prevented by illness or other sufficient cause from taking or completing the whole or part of the final stage assessment or whose results are substantially affected by illness or other sufficient cause:

- (a) permit the candidate to complete, take, or repeat as candidates for the Honours degree, the assessment in one or more modules at an approved subsequent date **or**

(b) deem the candidate to have passed and recommend the award of an Aegrotat Honours Degree.

16.3 Before an Aegrotat award is recommended a candidate must have indicated that he or she is willing to accept the award.

17. REVISIONS TO REGULATIONS

These regulations may be revised during the student's period of registration in accordance with the procedures approved by Senate.

18 TABLE

Year	Semester	Level	Module Title	Code	Credit Value	Status Compulsory (c) Optional (o)	Assessment Methods		Contribution to the overall mark of the Final Award
							% Examination	% Coursework	
1	1	4	Introduction to Computer Games	COM176	20	C	50	50	0
1	1	4	Programming I	COM136	20	C		100	0
1	1	4	Introduction to Design and Communication	DES121	20	C		100	0
1	2	4	Programming II	COM139	20	C	50	50	0
1	2	4	Internet and Multimedia Technology	COM134	20	C		100	0
1	2	4	Typographic Design NB: *Design stream only	DES110	20	O		100	0
1	2	4	Introduction to 3D NB: *Games Stream only	DES124	20	O		100	0
2	1	5	Multimedia Authoring	COM315	20	C		100	0
2	1	5	Professional Issues	COM417	10	C		100	0
2	1	5	Visual Programming	COM321	10	C		100	0
2	1	5	Graphics Design Print NB: *Design stream only	DES306	20	O		100	0
2	1	5	Animation Design NB: *Games stream only	DES316	20	O		100	0
2	2	5	Human Computer Interaction	COM350	20	C	50	50	0
2	2	5	Multimedia Games Development	COM429	20	C		100	0
2	2	5	Graphics Design Screen NB: *Design stream only	DES317	20	O		100	0
2	2	5	3D Product and Character Simulation NB: *Games stream only	DES311	20	O		100	0
3	1, 2, 3	5	Industrial Placement (DIS only)	COM367	60	C		100	DIS/DAS
4	1 and 2	6	Final Year Project	EEE521	30	C		100	25%
4	1	6	Research Studies and Project Management	COM529	10	C		100	8.3%
4	1	6	Applied Mobile Technologies	COM594	20	O	50	50	16.6%
4	1	6	Interactive M'edia Games Development	COM631	20	O		100	16.6%
4	1	6	Innovation: Animation/Moving Image NB: *Games stream only	DES515	20	C		100	16.6%
4	1	6	Innovation and Concept NB: Design	DES511	20	O		100	16.6%

