Human Computer Interaction with English Language

Programme Requirements:

Human Computer Interaction (with English Language) - MSc
40 credits from Module List: ET5400 - ET5401 **and** 15 credits from Module List: CS5001 - CS5002 **And** (CS5098 (60 credits) **or** CS5099 (60 credits)) **and** ET5402 (15 credits) **and** 30 credits from Module List: CS5040, CS5042 **and** 15 credits from Module List: CS5041, CS5044 **and** Between 0 and 30 credits from Module List: CS4052, CS4100 - CS4450 **and** Between 15 and 45 credits from Module List: IS5102 - IS5150, CS5003 - CS5089 (except CS5019, CS5029, CS5039), ID5059

Compulsory modules:

ET5400 English for Academic Purposes (Combined Masters)				
SCOTCAT Credits:	20	SCQF Level 11	**Semester**	2
Academic year:	2018/9			
Availability restrictions:	Available only to students on 'with English Language' MSc programmes in the School of Computer Science.			
Planned timetable:	To be arranged.			
This module is designed to develop the academic literacy of students entering onto a taught masters programme at the University of St Andrews. Students develop the academic competence required for writing, delivering presentations, participating in seminars, researching for and evaluating source material, and developing criticality in respect of all aspects of their studies.				
Learning and teaching methods of delivery:	**Weekly contact**: 6 class tutorials (x 11 weeks) , 0.5 individual supervision meeting (x 5 weeks)			
	Scheduled learning: 69 hours		**Guided independent study:** 132 hours	
Assessment pattern:	**As used by St Andrews:** 2-hour Written Examination = 25%, Coursework = 75% Coursework contains 2 elements: a extended essay ((50% of grade) and a presentation (25% of grade).			
Re-assessment pattern:	2-hour Written Examination = 50%, Coursework = 50%			
Module coordinator:	Mr J W Harvey			
Module teaching staff:	Mr J Harvey, Mrs K Tavakoli, Ms L Thirkell			

ET5401 English for Computer Science 1

SCOTCAT Credits:	20	SCQF Level 11	**Semester**	2
Academic year:	2018/9			
Availability restrictions:	Available only to students on 'with English Language' MSc programmes in the School of Computer Science.			
Planned timetable:	To be arranged.			

This module is designed to develop the academic literacy of students entering onto MSc programmes in the School of Computer Science, and this module runs in parallel with English for Academic Purposes (ET5400). Strategies learnt in ET5400 will be applied to specific Computer Science-based texts, and written and spoken tasks. Students will also participate in assessed group projects modelled on similar assessments in 5000-level Computer Science (CS) modules.

Learning and teaching methods of delivery:	**Weekly contact:** 6 class tutorials (x 11 weeks), one individual supervision meeting (.05 hours, x 5 weeks)	
	Scheduled learning: 69 hours	**Guided independent study:** 132 hours
Assessment pattern:	**As used by St Andrews:** Coursework = 100%	
Re-assessment pattern:	Coursework = 100%	
Module coordinator:	Ms A J Brooks	
Module teaching staff:	Ms J Brooks, Ms M Carr	

ET5402 English for Computer Science 2

SCOTCAT Credits:	20	SCQF Level 11	**Semester**	2
Academic year:	2018/9			
Availability restrictions:	Available only to students on 'with English Language' MSc programmes in the School of Computer Science.			
Planned timetable:	To be arranged.			

This module is designed to follow on from ET5401 and ET5400 to further enhance the academic literacy of students on MSc Programmes in the School of Computer Science. Strategies learnt on the two modules mentioned above will be applied to specific Computer Science-based texts, and written and spoken tasks. Students will also participate in assessed group projects modelled on similar assessments in 5000-level CS modules.

Learning and teaching methods of delivery:	**Weekly contact:** 6 class tutorials (x 11 weeks), one individual supervision meeting (0.5 hours, 5 weeks)	
	Scheduled learning: 72 hours	**Guided independent study:** 132 hours
Assessment pattern:	**As used by St Andrews:** Coursework = 100%	
Re-assessment pattern:	Coursework = 100%	
Module coordinator:	Ms A J Brooks	
Module teaching staff:	Ms J Brooks, Ms M Carr	

Either:

CS5001 Object-Oriented Modelling, Design and Programming

SCOTCAT Credits:	15	SCQF Level 11	**Semester**	Both
Academic year:	2018/9			
Availability restrictions:	This module is only available in Semester 2 to students enrolled on the 'with English Language' version of the programme. All other students must take the module in Semester 1.			
Planned timetable:	Variable			

This module introduces and revises object-oriented modelling, design and implementation up to the level required to complete programming assignments within other MSc modules. Students complete a number of practical exercises in laboratory sessions.

Anti-requisite(s)	You cannot take this module if you take CS5002
Learning and teaching methods of delivery:	**Weekly contact**: Lectures, tutorials and practical classes.
Assessment pattern:	Coursework = 100%
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)

Or:

CS5002 Programming Principles and Practice

SCOTCAT Credits:	15	SCQF Level 11	**Semester**	Both
Academic year:	2018/9			
Availability restrictions:	This module is only available in Semester 2 to students enrolled on the 'with English Language' version of the programme. All other students must take the module in Semester 1.			
Planned timetable:	Variable			

This module introduces computational thinking and problem solving skills to students who have no or little previous programming experience. It covers general programming concepts used in the development of software applications, such as data structures, functions, choice, iteration, recursion and input/output. An easy-to-learn programming language is used to illustrate these concepts, and programming skills are reinforced through practical assignments.

Anti-requisite(s)	You cannot take this module if you take CS5001
Learning and teaching methods of delivery:	**Weekly contact**: Lectures, tutorials and practical classes.
Assessment pattern:	Coursework = 100%
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)

CS5040 Human Computer Interaction Principles and Methods

SCOTCAT Credits:	15	SCQF Level 11	**Semester**	1
Academic year:	2018/9			
Planned timetable:	To be arranged.			

This module provides a grounded introduction to the principles of human computer interaction in the context of evaluation paradigms. Material includes: history of interfaces and interaction; the human (vision, perception, memory, hearing); the computer (from existing to next generation ubiquitous computing systems); paradigms of interaction; evaluation paradigms in HCI; guidelines and heuristics; experimental design and hypothesis testing in HCI; quantitative evaluation methods in HCI; qualitative evaluation methods in HCI.

Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)	
Anti-requisite(s)	You cannot take this module if you take CS3106	
Learning and teaching methods of delivery:	**Weekly contact**: Lectures, practical classes and tutorials.	
	Scheduled learning: 41 hours	**Guided independent study:** 109 hours
Assessment pattern:	**As used by St Andrews:** 2-hour Written Examination = 60%, Coursework = 40%	
Re-assessment pattern:	2-hour Written Examination = 60%, Existing Coursework = 40%	
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)	

CS5042 User-Centred Interaction Design

SCOTCAT Credits:	15	SCQF Level 11	**Semester**	2
Academic year:	2018/9			
Availability restrictions:	The module is available to all students enrolled on the MSc in Human Computer Interaction Programme. A ballot for students on other MSc programmes and final year MSci students wishing to take the module may be necessary due to lab equipment constraints.			
Planned timetable:	To be arranged.			

This module studies methodologies in interaction design that are at the core of current practice for user interface engineering and application development. Students work towards creating designs of interactive systems that are based on human, group and organisation needs rather than on technical constraints. The module does not involve a great deal of programming.

Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)	
Learning and teaching methods of delivery:	**Weekly contact**: 2 lectures, 3 practicals and 1 tutorial.	
	Scheduled learning: 66 hours	**Guided independent study:** 84 hours
Assessment pattern:	**As used by St Andrews:** Coursework = 85%, Presentation = 15%	
Re-assessment pattern:	No Re-assessment available	
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)	

One of:

CS5041 Interactive Software and Hardware

SCOTCAT Credits:	15	SCQF Level 11	**Semester**	1
Academic year:	2018/9			
Availability restrictions:	The module is available to all students enrolled on the MSc in Human Computer Interaction Programme. A ballot for students on other MSc programmes and final year MSci students wishing to take the module may be necessary due to lab equipment constraints.			
Planned timetable:	To be arranged.			
This module develops prototype-building skills for a wide range of interactive technologies. Students learn how to create interactive hardware and software using technologies such as tangible programming kits, mobile devices, microprocessor kits and depth cameras. There is a strong emphasis on practical assignments.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101)			
Co-requisite(s):	Postgraduate - you must also take CS5001			
Learning and teaching methods of delivery:	**Weekly contact**: Lectures, practical classes and tutorials.			
	Scheduled learning: 66 hours		**Guided independent study:** 84 hours	
Assessment pattern:	**As used by St Andrews:** Coursework = 100%			
Re-assessment pattern:	No Re-assessment available			
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

CS5044 Information Visualisation

SCOTCAT Credits:	15	SCQF Level 11	**Semester**	2
Academic year:	2018/9			
Planned timetable:	To be arranged.			
This module provides an introduction to information visualisation. It focuses on the question of how to utilise visual representations to make information accessible for exploration and analysis. The module covers basic principles of visualisation design and interaction principles. It introduces a range of visualisation techniques and tools, and discusses how these can be effectively applied in various scenarios for communication, exploration and analysis, and how to evaluate information visualisations in different contexts. Skills in designing, developing, and evaluating information visualisations are reinforced through practical assignments.				
Pre-requisite(s):	Undergraduate - before taking this module you must pass CS2002 and (pass CS2001 or pass cs2101). Postgraduate - before taking this module you must pass CS5001 or pass CS5002			
Learning and teaching methods of delivery:	**Weekly contact**: 3-hour lecture (x 11 weeks), 1-hour seminar (x 8 weeks)			
	Scheduled learning: 41 hours		**Guided independent study:** 109 hours	
Assessment pattern:	**As used by St Andrews:** 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	2-hour Written Examination = 40%, Existing Coursework = 60%			
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)			

Computer Science - Human Computer Interaction with English - 2018/9 - Sept 2018

One of:

CS5098 Group Project and Dissertation in Computer Science

SCOTCAT Credits:	60	SCQF Level 11	**Semester**	Full Year
Academic year:	2018/9			
Planned timetable:	To be arranged.			

This module is a group-based MSc project on a topic in Computer Science. It results in an individual dissertation of no more than 15,000 words submitted by each student. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. The dissertation may also include an agreed collaboratively-written group report. Each student is individually assessed, taking into account both individual and group submissions. Students are required to give a presentation of their work.

Pre-requisite(s):	Requires admission to dissertation phase of msc and permission of the head of school.
Anti-requisite(s)	You cannot take this module if you take CS5099
Learning and teaching methods of delivery:	**Weekly contact**: Meetings with supervisor.
	Scheduled learning: 13 hours **Guided independent study:** 587 hours
Assessment pattern:	**As used by St Andrews:** Coursework = 100%
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)

CS5099 Dissertation in Computer Science

SCOTCAT Credits:	60	SCQF Level 11	**Semester**	Full Year
Academic year:	2018/9			
Planned timetable:	To be arranged.			

This module is an individually supervised MSc project on a topic in Computer Science. It results in a dissertation of no more than 15,000 words. Typically the dissertation comprises a review of related work, the extension of old or development of new ideas, software implementation and testing, analyses and evaluation. Students are required to give a presentation of their work.

Pre-requisite(s):	Requires admission to dissertation phase of msc and permission of the head of school
Anti-requisite(s)	You cannot take this module if you take CS5098
Learning and teaching methods of delivery:	**Weekly contact**: Meeting with supervisor.
	Scheduled learning: 0 hours **Guided independent study:** 0 hours
Assessment pattern:	**As used by St Andrews:** Coursework = 100%
Module teaching staff:	TBC Module coordinator(s): Director of Postgraduate Teaching - Computer Science (dopgt-cs@st-andrews.ac.uk)

Optional modules are available - see the pdf online called Computer Science optional modules 2018-2019