

Advanced Computer Science

Programme Requirements:

Advanced Computer Science - MSc
<p>(CS5098 (60 credits) or CS5099 (60 credits)) and CS5001 (15 credits) and Between 0 and 30 credits from Module List: CS4052, CS4100 - CS4450 and Between 0 and 30 credits from Module List: IS5102 - IS5150 and Between 45 and 120 credits from Module List: CS5003 - CS5089, ID5059 (except CS5019, CS5029, CS5039)</p> <p>MPhil: 120 credits from taught element of programme requirements (not including prjoect/dissertation) plus a thesis of up to 40, 000 words</p> <p>CS5001 is compulsory except when exempted following satisfactory performance in an assessment conducted by the school.</p>

Compulsory modules:

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)			

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Either:

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)			

Or:

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**.