

**DEPARTMENT OF MATHEMATICS AND
COMPUTER SCIENCE**

**LIST OF UNDERGRADUATE COURSES
(2008/2009)**

COMPUTER SCIENCE COURSES

CODES	TITLES	CREDIT	SEMESTER OFFERED	Level	PREREQUISITES
LEVEL 1					
CS11Q/COMP 1125	INTRODUCTION TO COMPUTER SCIENCE I	6 Credits	Semester 1	1	One of the Following: A-level Mathematics or M08B and M08C or EC14C or A certificate/diploma in Mathematics at the Associate level degree (e.g. from a teacher's college) or O-level (or CXC CSEC) Mathematics and A-level Computer Science
CS11R/COMP1 160	INTRODUCTION TO COMPUTER SCIENCE II	6 Credits	Semester 2	1	One of the Following: A-level Mathematics or M08B and M08C or EC14C or A certificate/diploma in Mathematics at the Associate level degree (e.g. from a teacher's college) or O-level (or CXC CSEC) Mathematics and A-level Computer Science
LEVEL 2					
CS20R/COMP2 111	ANALYSIS OF ALGORITHMS	4 Credits	Semester 2	2	CS11Q/COMP1110 and CS11R/COMP1120
CS20S/COMP2 101	DISCRETE MATHEMATICS FOR COMPUTER SCIENCE	4 Credits	Semester 1	2	CS11Q/COMP1110 and CS11R/COMP1120
CS21R/COMP2 230	COMPUTER ARCHITECTURE	4 Credits	Semester 2	2	CS21Q/2120 – Digital Systems

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	& ORGANIZATION				
CS21S/COMP2120	DIGITAL LOGIC DESIGN	4 Credits	Semester 1	2	CS11Q/COMP1110 and CS11R/COMP1120
CS22Q/COMP2140	SOFTWARE ENGINEERING	4 Credits	Semester 1	2	CS11Q/COMP1110 and CS11R/COMP1120
CS23Q/COMP2240	COMPUTER ORGANIZATION	4 Credits	Semester 2	2	CS11Q/COMP1110 and CS11R/COMP1120
CS24W/COMP2180	WEB PROGRAMMING I	4 Credits	Semester 1	2	CS11Q/COMP1125 and CS11R/COMP1160
CS27Q/COMP2160	OBJECT-ORIENTED PROGRAMMING	4 Credits	Semester 1	2	CS11R/COMP1120
CS28Q/COMP2170	OBJECT TECHNOLOGY	4 Credits	Semester 2	2	CS11Q/COMP1110 and CS11R/COMP1120 Co-requisite: CS22Q/COMP2140
LEVEL 3					
CS31A/COMP3100	OPERATING SYSTEMS	4 Credits	Semester 1	3	CS20R/COMP2111 and (CS21R/COMP2230 or CS23Q/COMP2240)
CS32Q/COMP3150	COMPUTER NETWORKING AND COMMUNICATION	4 Credits	Semester 1	3	CS20R/COMP2111 and (CS21R/COMP2230 or CS23Q/COMP2240)
CS32R/COMP3150	COMPUTER NETWORK & SECURITY	4 Credits	Semester 2		CS32Q/COMP3150
CS33Q/COMP3120	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	4 Credits	Semester 1	3	CS20R/COMP2111 and CS20S/COMP2101
CS34Q/COMP3651	LANGUAGE PROCESSORS	4 Credits	Semester 1	3	CS20R/COMP2111 and CS27Q/COMP2160
CS34W/COMP	WEB DESIGN &	4 Credits	Semester 2	3	CS24W/COMP2180

CODES	TITLES	CREDIT	SEMESTER OFFERED	Level	PREREQUISITES
2180	PROGRAMMING II				
CS35A/COMP3 160	DATABASE MANAGEMENT SYSTEMS	4 Credits	Semester 2	3	CS20S/COMP2101
CS35Q/COMP 3110	INFORMATION SYSTEMS IN ORGANISATIONS	4 Credits	Semester 2	3	CS22Q/COMP2140
CS35R/COMP3 170	USER INTERFACE DESIGN	4 Credits	Semester 2	3	CS22Q/COMP2140 and CS27Q/COMP2160
CS37R/COMP3 701	THEORY OF COMPUTATION	4 Credits	Semester 2	3	CS20S/COMP2101
CS38Q/COMP 3800	REAL-TIME EMBEDDED SYSTEMS	4 Credits	Semester 1	3	CS21Q/COMP2120 and CS21R/COMP2230
CS39Q/COMP 3900	GROUP PROJECT	4 Credits	Semester 1,2 & 3	3	CS20R/COMP2111 and CS27Q/COMP2160 and 8 other credits from Level 2 or 3

