DEGREE OF BACHELOR OF SCIENCE IN COMPUTING SCIENCE AND PHYSICS (04IF1370)

DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN COMPUTING SCIENCE AND PHYSICS (04IF1389)

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Science

All the courses listed below are prescribed for this degree

PROGRAMME YEAR 1 – 120 Credit Points					
Term 1			Term 2		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PD 1002	Getting Started at the University of Aberdeen	0			
CS 1032	Programming 1	15	CS 1534	Web Development	15
PX 1015	The Physical Universe A	15	CS 1527	Object-Oriented Programming	15
MA 1005	Calculus I	15	PX 1513	The Physical Universe B	15
MA 1006	Algebra	15	MA 1508	Calculus II	15

PROGRAMME YEAR 2 – 120 Credit Points					
Term 1			Term 2		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
CS 2020	Software Programming	15	CS 2506	Human-Computer Interaction	15
CS 2019	Databases and Data Management	15	CS 2522	Algorithms and Data Structures	15
PX 2013	Light Science	15	PX 2505	Practical Optics and Electronics	15
PX 2015	Dynamical Phenomena	15	PX 2510	Relativity and Quantum Mechanics	15

PROGRAMME YEAR 3 – 120 Credit Points					
Term 1			Term 2		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
CS 3028	Principles of Software Engineering	15	CS 3528	Software Engineering and Professional Practice	15
PX 3014	Energy and Matter	15	CS 3524	Distributed Systems and Security	15
PX 3020	Mathematical Methods in Physics	15	PX 3510	Advanced Practical Physics	15
Plus **one** of the following courses:			*EITHER* PX 4510*	Structure of Matter and the Universe	15
CS 3026	Operating Systems	15			
CS 3033	Artificial Intelligence	15	*OR* PX 4516*	Nuclear and Semiconductor Physics	15
*These courses alternate on a two-year cycle. PX 4510 will run in 2023-24.					

PROGRAMME YEAR 4 – 120 Credit Points					
Term 1			Term 2		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
CS 4040	Research Methods	15	CS 4594	Joint Honours Computing-Physics Project	45
PX 4007	Case Studies in Physical Sciences	15			
PX 4012	Statistical Physics and Stochastic Systems	15			
Plus one of the following courses:			PX 4514	Modelling Theory	15
CS 4028	Security	15			
CS 4048	Robotics	15			
CS 4051	Natural Language Processing	15			
A graduating curriculum for the Honours programme must include 90 credit points from Level 4 courses.					

Notes	
1.	Designated Programme: See Supplementary Regulation 1
2.	Candidates seeking entry to the Junior Honours programme must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including those compulsory courses required to enter programme year 3.