

**DEGREE OF BACHELOR OF SCIENCE IN APPLIED MATHEMATICS (04G12070)**

**DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN APPLIED MATHEMATICS  
(04G12089)**

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					
First Half Session			Second Half Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PD 1002	Getting Started at the University of Aberdeen	0			
CS1028	Programming for Science and Engineering	15	ST 1506	Understanding Data	15
MA 1005	Calculus I	15	MA 1508	Calculus II	15
MA 1006	Algebra	15	MA 1511	Set Theory	15
Plus 60 credit points from courses of choice.					

PROGRAMME YEAR 2 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
MA 2010	Probability	15	MA 2508	Linear Algebra II	15
MA 2008	Linear Algebra I	15			
MA 2009	Analysis I	15	MA 2509	Analysis II	15
Plus 45 credit points from courses of choice.					

PROGRAMME YEAR 3 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
MX 3020	Group Theory	15	MX 3535	Analysis IV	15
MX 3035	Analysis III	15			
MX4086 OR MX4087	Optimisation Theory* OR Financial Maths*	15 Or 15	MX 3536	Differential Equations	15
Plus 30 credits from:					
MX 3036	Metric and Topological Spaces	15	MX 3531	Rings and Fields	15
			MX 4540 OR MX 4549	Knots* Geometry*	15
			Plus 15 credit points from courses of choice.		
* Courses are offered in alternate years. MX 4087 and MX 4540 will be offered in 2020-2021.					

PROGRAMME YEAR 4 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PX 4011	Project A				30
MX 4085	Non-Linear Dynamics and Chaos Theory 1	15	MX 4553	Modelling Theory	15
MX4086 OR MX4087	Optimisation Theory* OR Financial Maths*	15	MX 4555	Non-Linear Dynamics and Chaos Theory 2	15
Plus a further 15 credit points from MX4 courses and 15 credits from courses of choice.					
<b>A graduating curriculum for the Honours programme must include 90 credit points from Level 4 courses.</b>					

**PLEASE SEE OVER →**

<b>Notes</b>	
1.	Designated Programme: See Supplementary Regulation 1
2.	Where alternatives are offered, choice may be restricted by timetable constraints.
3.	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.