

Mathematics Major Programme Structure

Semester	Code	Course Name	CU	LH	TH	CH
Year 1 Semester I						
Core Courses						
	MTH1101	Calculus I	3	30	30	45
	MTH1102	Linear Algebra I	3	30	30	45
	MTH1103	Foundations of Mathematics	3	30	30	45
	UNV1101	Communication Skills	3	45	0	45
		Total CU	12			
Year 1 Semester II						
Core Courses						
	MTH1201	Calculus II	3	30	30	45
	MTH1202	Elements of Probability & Statistics	3	30	30	45
	MTH1204	Calculus III	3	30	30	45
		Total CU	9			
Year 2 Semester I						
Core Courses						
[Students whose second subject is Statistics are exempted from MTH2102]						
	MTH2101	Real Analysis I	3	30	30	45
	MTH2102	Probability Theory	3	30	30	45
	MTH2103	Differential Equations	3	30	30	45
	MTH2104	Linear Algebra II	3	30	30	45
	UNV2101	Introduction to Development Studies	3	30	30	45
Elective Course						
	MTH2108	Discrete Mathematics	3	30	30	45

Audited Course (For Only Majors in Mathematics)

	MTH2107	Computer Methods	-	10	70	45
		Total CU	15			

Year 2 Semester II**Core Courses**

	MTH2201	Abstract Algebra	3	30	30	45
	MTH2202	Complex Analysis	3	30	30	45
	MTH2203	Numerical Analysis I	3	30	30	45
	MTH2205	Linear Programming	3	30	30	45

Elective Course

(For students whose second subject is not Physics)

	PHY1211	Classical Mechanics I	3	30	30	45
		Total CU	12			

Year 3 Semester I**Core Courses**

	MTH3101	Functional Analysis	3	30	30	45
	MTH3104	Dynamical Systems	3	30	30	45
		Total CU	6			

Electives (Choose Two)

[Students whose second subject is Statistics are exempted from MTH3109]

	MTH3102	Numerical Analysis II	3	30	30	45
	MTH3108	Rings and Modules	3	30	30	45
	MTH3109	Statistical Inference	3	30	30	45
	MTH3112	Mathematical Logic	3	30	30	45
		Total CU	6			

Year 3 Semester II

Core Courses						
	MTH3201	Real Analysis II	3	30	30	45
	MTH3202	Differential Equations II	3	30	30	45
		Total CU	6			
Electives (Choose Two)						
	MTH3210	Graph Theory	3	30	30	45
	MTH3214	Number Theory	3	30	30	45
	MTH3216	Biomathematics	3	30	30	45
	PHY2111	Classical Mechanics II	3	30	30	45
		Total CU	6			
Year 3 Recess Semester						
	UNV3301	Field Attachment	5	0	0	75
	OVERALL TOTAL CUs		77			

Mathematics Minor Programme Structure

Semester	Code	Course Name	CU	LH	TH	CH
Year 1 Semester I						
Core Courses						
	MTH1101	Calculus I	3	30	30	45
	MTH1102	Linear Algebra I	3	30	30	45
	MTH1103	Foundations of Mathematics	3	30	30	45
		Total CU	9			
Year 1 Semester II						
Core Courses						
	MTH1201	Calculus II	3	30	30	45
	MTH1202	Elements of Probability & Statistics	3	30	30	45

	MTH1204	Calculus III	3	30	30	45
		Total CU	9			

Year 2 Semester I

Elective Courses (Choose Two)

	MTH2101	Real Analysis I	3	30	30	45
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	MTH2102	Probability Theory	3	30	30	45
	MTH2103	Differential Equations	3	30	30	45
	MTH2104	Linear Algebra II	3	30	30	45
	MTH2108	Discrete Mathematics	3	30	30	45
		Total CU	6			

Year 2 Semester II

Elective Courses (Choose Two)

	MTH2201	Abstract Algebra	3	30	30	45
	MTH2202	Complex Analysis	3	30	30	45
	MTH2203	Numerical Analysis I	3	30	30	45
	MTH2205	Linear Programming	3	30	30	45
	PHY1211	Classical Mechanics I	3	30	30	45
		Total CU	6			

Year 3 Semester I

Electives (Choose Two)

[Students whose second subject is Statistics are exempted from MTH3109]

	MTH3101	Functional Analysis	3	30	30	45
	MTH3104	Dynamical Systems	3	30	30	45
	MTH3102	Numerical Analysis II	3	30	30	45
	MTH3108	Rings and Modules	3	30	30	45
	MTH3109	Statistical Inference	3	30	30	45

		Total CU	6			
Year 3 Semester II						
Electives (Choose Two)						
	MTH3201	Real Analysis II	3	30	30	45
	MTH3202	Differential Equations II	3	30	30	45
	MTH3210	Graph Theory	3	30	30	45
	MTH3214	Number Theory	3	30	30	45
	MTH3216	Biomathematics	3	30	30	45
		Total CU	6			
		OVERALL TOTAL CUs	42			