

College: **Science** Department: **Mathematics** Program: **B.Sc.(Mathematics)**

Code
MUP12

Student Learning Outcomes to Courses Matrix (X Matrix)

		A			B		C			D	
		a1	a2	a3	b1	b2	c1	c2	c3	d1	d2
courses	PENG 111								√		
	PMTH 112	√			√		√			√	
	PCOM 113		√				√				√
	PSSC 114						√				
	PENG 121								√		
	PMTH 127	√			√		√			√	
	PENG 123								√		
	PPHS 128		√				√			√	
	MATH 201	√	√				√		√		
	STAT 201		√			√			√		√
	MATH 202	√			√		√			√	
	MATH 203	√	√				√	√			√
	MATH 204	√				√	√				√
	MATH 231	√					√			√	
	MATH 241	√			√		√			√	
	MATH 271	√		√	√					√	
	STAT302		√				√		√		
	MATH 321	√	√			√		√		√	
MATH 322		√			√		√		√		

		A			B		C			D	
		a1	a2	a3	b1	b2	c1	c2	c3	d1	d2
	MATH 342	√					√			√	
	MATH 351	√			√			√			√
	MATH 352				√	√	√				√
	MATH 353		√	√			√			√	√
	MATH 381	√			√			√		√	
	MATH 423	√			√	√	√				
	MATH443				√		√			√	
	MATH 472			√	√		√			√	
	MATH 473			√	√		√			√	
	MATH 483			√		√		√	√		
	MATH 484			√		√		√	√		
	MATH 499			√	√		√	√	√	√	√
	MATH 411	√			√			√		√	
	MATH 482										
	MATH 344	√	√				√		√		

Student Learning Outcomes:

Domain	Code	<i>learning outcomes</i>
A	a1	Define and write fundamentals and concepts of mathematics.
	a2	Recall and reproduce fundamentals and concepts of General sciences and Computer skills.
	a3	Continue to acquire and outline mathematical and statistical knowledge and skills appropriate to professional activities
B	b1	Construct mathematical arguments and proofs and apply the underlying unifying structures of mathematics.
	b2	Develop and explain critical thinking skills to solve problems that can be modeled mathematically
C	c1	Demonstrate the work independently and within a team
	c2	Illustrate and bear responsibility for different situations
	c3	Analyze and realize the codes of ethics and their importance.
D	d1	Communicate mathematical ideas, both orally and in writing
	d2	Critically interpret numerical and graphical data.
E	e1	N. A.