



Philadelphia University
Department of Basic Science and Mathematics

Matrix Correlating Program Taught Obligatory Courses & Learning Outcomes

Obligatory Courses Taught In The Program	Learning Outcomes															
	Knowledge and Understanding						Intellectual Skills		Professional and Practical Skills					General and Transferable Skills		
	K1	K2	K3	K4	K5	K6	I1	I2	P1	P2	P3	P4	P5	T1	T2	T3
Calculus(1) 0250101	√		√			√	√		√		√	√				
Introduction to Probability & Statistics 0250231	√	√		√		√	√		√		√	√				
General Physics (1) 0211101	√	√	√		√		√									
General Chemistry (1) 0212101	√	√	√			√	√									
General Biology (1) 0240101	√			√		√	√									
General Physics (2) 0211102	√	√	√		√		√									
General Chemistry (2) 0212103	√			√		√	√									
Biostatistics 0250233	√	√	√			√	√	√	√							

Programming C++ 0750115		√	√	√	√	√	√		√				√	√		
Calculus (2) 0250102	√				√	√					√	√				
Calculus (3) 0250202	√			√		√	√		√		√					
Ordinary Differential Equations 0250203	√			√								√	√		√	
Probability Theory 0250232				√		√	√		√	√						
Algebra Linear (1) 0250241	√				√						√					
Set Theory 0250251	√		√			√		√		√		√				
Modern Eucliddan Geometry(1) 0250262		√				√	√	√		√						
Calculus(4) 0250302	√										√					
Partial Differential Equations 0250305	√			√	√		√	√	√			√		√	√	
Real Analysis 0250311			√	√		√	√				√					
Complex Analysis 0250312	√	√			√			√	√		√					
Number Theory 0250313			√				√							√	√	
Mathematical Statistics 0250332	√			√		√	√			√						

Linear Algebra (2) 0250341		√							√							
Graph Theory and Combinatorics 0250352					√		√			√						
Abstract Algebra (1) 0250342		√		√		√	√	√		√						
Numerical Analysis 0250371	√			√		√		√	√			√				√
Computer Aided Math 0250372	√			√		√	√		√			√			√	
Linear Programming 0250373						√			√			√				√
Problem Solving 0250381	√	√		√	√			√				√				
Real Analysis (2) 0250411	√						√		√	√						
Abstract Algebra(2) 0250442			√		√	√		√			√					
Topology 0250465	√									√	√					
Mathematical Modeling 0250471		√		√			√		√			√		√	√	
Teaching Methods Math 0250481	√							√	√			√				
Special Topics 0250492			√	√							√	√				
Applied Probability 0250333				√		√	√						√	√		

Matrix Theory 0250444		√				√	√			√	√				
History of Math 0250453		√	√				√		√			√			
Modern Euclidean Geometry(2) 0250467			√		√				√		√				
Special Functions 0250475				√		√				√		√			√
Game Theory 0250476			√	√			√		√			√			