

MATHEMATICS MAJOR, BS

Campus: NYC, Westchester

Major Completion Summary

Requirement	Credits
University Core Requirements	44-55
Major Requirements	46-48
Open Electives	25-38
Total Credits	128

University Core Requirements (44-45 Credits)

See complete University Core (<http://catalog.pace.edu/undergraduate/university-core-curriculum/>) requirements.

Code	Title	Credits
University Core		
Complete University Core Requirements ¹		44-55
Total Credits		44-55

¹ MAT 131 Calculus I (4 credits) may be used to satisfy Math core requirement; otherwise it must be taken for major credit.

Major Requirements (46-48 Credits)

Code	Title	Credits
Required Major Courses		
MAT 131	Calculus I ¹	4
MAT 132	Calculus II	4
MAT 137 or MAT 233	Introduction to Discrete Mathematics Mathematical Structures and Models	4
MAT 234	Introduction to Probability and Statistical Analysis	4
MAT 236	Multivariable Calculus	4
MAT 238	Linear Algebra	4
MAT 253	Differential Equations	4
MAT 301	Algebraic Structures	3
MAT 315	Introduction to Real and Complex Analysis	4
MAT 400	Mathematics: Connections, Communications, Research (or MAT 490 and MAT 491)	3
Approved CS or CIT Programming Course		3-4
Required Major Electives		6-7
Two electives selected from courses below		
MAT 218	Applied Regression Models	
MAT 222	Applied Multivariable Statistical Methods	
MAT 225	Bayesian Statistics and Modeling	
MAT 303	Modern Geometry	
or other elective approved by Department Chair		
Total Credits		47-49

¹ MAT 131 Calculus I (4 credits) may be used to satisfy Math core requirement; otherwise it must be taken for major credit.

Open Electives (25-38 Credits)

Code	Title	Credits
Open Electives		
Select 25-38 credits		25-38
Total Credits		25-38