

**Proposed PMATH undergraduate course offerings over the next several years** (subject to change)

**February 2017**

Course\Term	F '15	W '16	S '16	F '16	W '17	S '17	F '17	W '18	S '18	F '18	W '19	S '19	F '19	W '20	S '20	F '20	W '21	S '21
PMATH 320--Euclidean Geometry									•						•			
PMATH 321--Non-Euclidean Geometry												•						•
PMATH 330--Introduction to mathematical logic	•		•	•		•	•		•	•		•	•		•	•		•
PMATH 331--Applied real analysis	•	•		•	•		•	•		•	•		•	•		•	•	
PMATH 332--Applied complex analysis		•	•		•	•		•	•		•	•		•	•		•	•
PMATH 333--Introduction to Real Analysis		•			•			•			•			•			•	
PMATH 334--Introduction to rings and fields		•			•			•			•			•			•	
PMATH 336--Introduction to group theory	•		•	•		•	•		•	•		•	•		•	•		•
PMATH 340--Elementary number theory	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
PMATH 347--Groups and Rings	•		•	•		•	•		•	•		•	•		•	•		•
PMATH 348--Fields and Galois Theory		•			•			•			•			•			•	
PMATH 351--Real analysis	•		•	•		•	•		•	•		•	•		•	•		•
PMATH 352--Complex analysis		•	•		•	•		•	•		•	•		•	•		•	•
PMATH 360--Geometry			•			•												
PMATH 365--Differential geometry		•			•			•			•			•			•	
PMATH 370--Chaos and fractals		•						•						•				
PMATH 432--First order logic and computability		•						•						•				
PMATH 441--Algebraic number theory			•		•				•		•				•		•	
PMATH 446--Introduction to Commutative Algebra		•			•			•			•			•			•	
PMATH 450--Lebesgue integration and Fourier analysis		•	•		•	•		•	•		•	•		•	•		•	•
PMATH 451--Measure and integration	•	•		•	•		•	•		•	•		•	•		•	•	
PMATH 465--Geometry of Manifolds	•			•			•			•			•			•		
PMATH 467--Algebraic topology					•						•						•	
<b>Introductory Graduate Courses of Possible Interest to Undergraduates (to enrol in PMATH 7xy, pre-enrol in PMATH 4xy)</b>																		
PMATH 733--Model theory and set theory				•						•						•		
PMATH 740--Analytic number theory	•						•						•					
PMATH 745--Representations of Finite Groups	•			•			•			•			•			•		
PMATH 753--Functional analysis	•			•			•			•			•			•		
PMATH 763--Introduction to Lie groups and Lie algebras					•						•						•	
PMATH 764--Algebraic Geometry		•				•		•				•		•				•
Course/Term	F '15	W '16	S '16	F '16	W '17	S '17	F '17	W '18	S '18	F '18	W '19	S '19	F '19	W '20	S '20	F '20	W '21	S '21