Sample programs for first-year Ph.D. students
(Applied Mathematics)

Year 1:

Fall:  
555a (PDE)
505a (Applied Probability1) or 507a (Probability 1)
525a (Real Analysis)
595 (Practical in Teaching the Liberal Arts: Mathematics)

Spring:  
541a (Statistics 1)
525b (Real Analysis 2)
502a (Numerical Analysis 1)
500 (Graduate Colloquium)

Sample programs for first-year Ph.D. students
(Pure Mathematics)

Sample 1. For students with interest in Algebra, Geometry or Topology

Year 1:

Fall:  
510a (Algebra 1)
525a (Real Analysis)
540 (Topology)
595 (Practicum in Teaching the Liberal Arts: Mathematics)

Spring:  
510b (Algebra 2)
520 (Complex Analysis)
535a (Differential Geometry)
500 (Graduate Colloquium)

Sample 2. For students with interest in Analysis, Differential Equations (PDEs, ODEs) or Probability

Year 1:

Fall:  
507a (Probability 1)
525a (Real Analysis 1)
555a (PDEs) or 535a (Differential Geometry)
595 (Practicum in Teaching the Liberal Arts: Mathematics)

Spring: 520 (Complex Analysis)
541a (Statistics 1)
565a (ODEs) or 535a (Differential Geometry)
500 (Graduate Colloquium)

All MATH students are required to take the complex variables and the real analysis exams. However the real analysis exam only covers 525a. Thus a student should take 520 in their first year. 525b can be taken the next year.

Also, note that all MATH students are required to take the courses 510a and 535a eventually, even if they do not plan to take the algebra or topology exam.