The Ohio State University
Department of Mathematics

<table>
<thead>
<tr>
<th>Degree</th>
<th>Required</th>
<th>Strongly Recommended</th>
<th>Minimum Requirements</th>
<th>Other factors</th>
</tr>
</thead>
</table>
| Ph.D. Theoretical Mathematics Track | • Evidence of strong preparations in Real Analysis and Abstract Algebra. Typically expected are one-year sequences at the baby-Rudin and Dummit-Foote level or comparable academic work.  
  • GRE Subject test in Math – may be waived with submission of a justification.  
  • 3 Letters of Recommendation, Vita, and Statement. | Additional upper division or graduate coursework in pure or applied math with solid grades. | Minimum undergraduate cumulative GPA of 3.0 on 4.0 grade scale.  
  No minimum requirements for GRE test scores for admission. | Research experience is not required or expected but may make applications more competitive.  
  Similar for graduate level coursework. |
| Ph.D. Applied Mathematics Track | • Evidence of solid preparations in Real Analysis (e.g., one semester baby-Rudin), advanced Linear Algebra, and Computational Science at introductory level.  
  • GRE Subject test in Math – may be waived with submission of a justification.  
  • 3 Letters of Recommendation, Vita, and Statement. | Additional upper division or graduate coursework in the mathematical sciences.  
  Prior research experience is not strictly required but weighs more heavily than for theoretical track | Minimum undergraduate cumulative GPA of 3.0 on 4.0 grade scale.  
  No minimum requirements for GRE test scores for admission. | Graduate level coursework and exposure to other quantitative sciences with math applications contribute to the strength of an application in this track. |
| Master of Actuarial and Quantitative Risk Management | • Solid Bachelor level coursework in Advanced Calculus, Statistics & Probability, as well as elementary economics.  
  • GRE general test or GMAT  
  GRE Subject Test in Math | Minimum undergraduate cumulative GPA of 3.0 on 4.0 grade scale.  
  No minimum GRE test scores for admission. | Relevant research experience for Bioscience track useful as well as coding background for computational track. |

Current Practice on Application Fee Waiver:
Standard Application Fee for PhD applicants is only $5. (Fee for the MAQRM is $60). Please contact grad-info@math.osu.edu for more information on fee waivers for special programs through OSU.

Financial Aid Information:
• All PhD students are guaranteed Graduate Teaching Associateships provided good academic standing.
• Strong applicants with an undergraduate GPA ≥ 3.6 as well as minority students with undergraduate GPA ≥ 3.2 may be considered to compete for recruitment fellowships (without teaching duties) for one to three years.
• Limited additional funds are available for departmental fellowships for either applying or continuing students.
• MAQRM students are generally not supported and responsible for their own stipend and tuition costs.

Website: https://math.osu.edu/grad/future