# Mathematics PhD Program of Study Checklist

## Thesis Credits
- 36-72 credits
  - Thesis – MTH 603

## Required Core Courses (Check all 4)
- 3 credits
  - Real Analysis I – MTH 511
- 3 credits
  - Real Analysis II – MTH 512
- 3 credits
  - Linear Algebra – MTH 543
- 3 credits
  - Complex Analysis – MTH 611

## 8 Additional Core Courses
**Including at least 3 two-term sequences from the following courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Abstract Algebra – MTH 644 &amp; 645</td>
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<tr>
<td>Applied Math – MTH 621 &amp; 622</td>
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<tr>
<td>Dynamical Systems – MTH 524 &amp; 525</td>
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<tr>
<td>Numerical Analysis – MTH 551, 552, 553*</td>
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<tr>
<td>Topology &amp; Geometry – MTH 531, 532, 674*</td>
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<tr>
<td>Probability – MTH 564, 565, 664*</td>
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*Any 2 of the 3 classes in this area can be used as core courses.

## Ethical Research Training (Required)
- 1-3 credits
  - Intro to Math Profession – MTH 507

## Fill in Additional Grad Courses to Reach 108 Credits (Check as Needed)

## Total Credits From All Sections (Minimum of 108)

## Important Reminders
- Program of Study must include at least 50% graduate stand-alone courses
- **Any classes listed in orange are NOT graduate stand-alone courses**
  - Program of Study must include a minimum of 108 credits
  - Program of Study must include at least 36 credits of 603
- Program of Study can include a maximum of 15 blanket credits (excluding 603)

## Helpful Links
- Program of Study Form
- Mathematics Graduate Handbook
- Graduate Stand-Alone Courses