Mathematics Master’s Program of Study Checklist

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| ***Thesis or Non-Thesis Option (Check 1)*** | | |
|  | 6-12 credits | Thesis – **MTH 503** |
|  | 3-6 credits | Non-Thesis (Expository Paper or Exam) – **MTH 501** |

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| ***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** |

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| ***4 Additional Core Courses***  ***2 From 1 Area*** *(For Depth);* ***Remaining 2 From 1 or 2 Other Areas*** *(For Breadth)*  ***(Check 2 or 3 AND Fill in Credits to Total of 12 Credits)*** | | |
|  |  | Abstract Algebra – **MTH 644 & 645** |
|  |  | Applied Math – **MTH 621 & 622** |
|  |  | Numerical Analysis – **MTH 551, 552, 553** |
|  |  | Topology & Geometry – **MTH 531, 532, 674 (any 2)** |
|  |  | Probability – **MTH 564, 565, 644 (any 2)** |

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

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| ***Fill in Additional Grad Courses to Reach 45 Credits (Check as Needed)*** | | |
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|  |  | Total Credits From All Sections (Minimum of 45) |

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| ***Important Reminders*** |
| * Total of 39 credits must be non-blanket numbered courses (MTH 501 & 503 are considered non-blanket courses) |
| * Program of Study must include at least 50% graduate stand-alone courses   **Any classes listed in orange are NOT graduate stand-alone courses** |

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| ***Helpful Links*** |
| [Program of Study Form](https://gradschool.oregonstate.edu/forms) |
| [Mathematics Graduate Handbook](https://math.oregonstate.edu/graduate-handbook) |
| [Graduate Stand-Alone Courses](https://math.oregonstate.edu/content/math-graduate-stand-alone-courses) |