Department of Mathematics and Statistics: Master’s Plan Of Study

Student: ___________________________ Program: M.A. in Mathematics
ID #: ___________________________ Concentration: Mathematics
Advisor: ___________________________

**COURSEWORK (minimum 30 credit hours)**

Choose at least one or list approved alternative in elective hours.

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester &amp; Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 635 Differential Equations and Orthogonal Systems (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 691 Advanced Abstract Algebra (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 692 Advanced Abstract Algebra (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 695 Mathematical Analysis (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 696 Mathematical Analysis (3)</td>
<td></td>
</tr>
</tbody>
</table>

Choose at least three, including a year-long sequence.

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester &amp; Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 723 Numerical Mathematics (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 727 Linear Algebra (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 728 Numerical Linear Algebra (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 737 General Topology (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 741 Algebra II: Modules and Fields (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 742 Computational Algebraic Number Theory (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 743 Complex Analysis (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 745 Measure Theory (3)</td>
<td></td>
</tr>
<tr>
<td>MAT 746 Real Analysis (3)</td>
<td></td>
</tr>
<tr>
<td>STA 651 Mathematical Statistics (3)</td>
<td></td>
</tr>
<tr>
<td>STA 652 Mathematical Statistics (3)</td>
<td></td>
</tr>
<tr>
<td>CSC 653 Advanced Theory of Computation (3)</td>
<td></td>
</tr>
<tr>
<td>CSC 656 Foundations of Computer Science (3)</td>
<td></td>
</tr>
</tbody>
</table>
Choose remaining elective credits approved by the DGS that may count toward the minimum of 30 credit hours required.

- [ ] MAT 602 Seminar in Mathematical Software (3)
- [ ] MAT 687 Project in Mathematics (3)
- [ ] MAT 699 Thesis (___ credit hours)
- [ ] STA 699 Thesis (___ credit hours)

Choose additional electives that do not count toward the required 30 hours.

- [ ] MAT 601 Seminar in the Teaching of Mathematics I (1)
- [ ] MAT 603 Practicum in the Teaching of Mathematics (2)
Capstone Experience

Choose one.

☐ Thesis
Include 6 credit hours of MAT 699 Thesis or STA 699 Thesis in required hours.

Thesis committee: __________________________(Chair)
____________________
____________________
____________________
____________________
____________________

☐ Project
Include 3 credit hours of MAT 687 Project in Mathematics in required hours.

Project supervisor: __________________________

☐ Comprehensive Exam
Do not include any hours of MAT 687, MAT 699, STA 698, or STA 699 in required hours.

Choose one type.

☐ Area exams: Choose two areas.
  ☐ Mathematical Analysis
  ☐ Linear Algebra and Matrix Theory
  ☐ Linear Models
  ☐ Mathematical Statistics

☐ Program exam:
  Part 1
  Part 2
List 18–21 credit hours from the program for the exam.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
SIGNATURES

Sign and print below.

Student: ____________________________  Date: ________________

______________________________

DGS: ________________________________  Date: ________________

______________________________