

**Department of Mathematics and Statistics: Master's Plan Of Study**

Student: \_\_\_\_\_ Program: M.A. in Mathematics  
 ID #: \_\_\_\_\_ Concentration: Mathematical Foundations of Data Science  
 Advisor: \_\_\_\_\_

COURSEWORK (MINIMUM 30 CREDIT HOURS)

SEMESTER & YEAR

Choose all or list replacement courses in elective hours.

- MAT 651 Topology Data Analysis (3) \_\_\_\_\_
- MAT 653 Mathematical Data Science I - Foundations (3) \_\_\_\_\_
- MAT 654 Mathematical Data Science II - Machine Learning (3) \_\_\_\_\_
- STA 622 Complex Data Analysis (3) \_\_\_\_\_

Choose remaining elective credits that may count toward the minimum 30 credit hours required.

- STA 698 Project in Statistics (3) \_\_\_\_\_  
 or MAT 687 Project in Mathematics (3) \_\_\_\_\_
- STA 699 Thesis (\_\_\_\_ credit hours) \_\_\_\_\_  
 or MAT 699 Thesis (\_\_\_\_ credit hours) \_\_\_\_\_
- any MAT or STA course at the 600-level or above \_\_\_\_\_


- Up to 6 credits of graduate level courses from any of the following department (with DGS approval)
  - Computer Science \_\_\_\_\_
  - Economics \_\_\_\_\_
  - Educational Research Methodology \_\_\_\_\_
  - Informatics and Analytics \_\_\_\_\_
  - Computational Analytics \_\_\_\_\_

Cultural Analytics

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Information Systems and Supply Chain Management

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

MAT 601 Seminar in the Teaching of Mathematics I (1)

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MAT 603 Practicum in the Teaching of Mathematics (2)

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CAPSTONE EXPERIENCE

MONTH & YEAR

Choose one.

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

Thesis committee: \_\_\_\_\_(Chair)

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Project \_\_\_\_\_  
Include 3 credit hours of STA 698 Project in Statistics or MAT 687 Project in Mathematics in required hours.

Project supervisor: \_\_\_\_\_

SIGNATURES

Sign and print below.

Student: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_

DGS: \_\_\_\_\_ Date: \_\_\_\_\_  
\_\_\_\_\_