

**Department of Mathematics and Statistics: Doctoral Plan Of Study (Fall 2022)**

Student: \_\_\_\_\_ Program: Ph.D. in Computational Mathematics  
 ID #: \_\_\_\_\_ Advisor: \_\_\_\_\_

COURSEWORK (MINIMUM 48 - 54 CREDIT HOURS)

SEMESTER & YEAR

Choose at least two courses from the following list.

- MAT 630 Computational Discrete Mathematics (3) \_\_\_\_\_
- MAT 627 Numerical Methods (3) \_\_\_\_\_
- STA 642 Statistical Computing (3) \_\_\_\_\_

Choose at least 48 credit hours of approved coursework.

- STA 622 Complex Data Analysis (3) \_\_\_\_\_
- STA 635 Theory of Linear Regression (3) \_\_\_\_\_
- STA 642 Statistical Computing (3) \_\_\_\_\_
- STA 651 Mathematical Statistics (3) \_\_\_\_\_
- STA 652 Mathematical Statistics (3) \_\_\_\_\_
- STA 661 Advanced Statistics in the Behavioral and Biological Sciences I (3) \_\_\_\_\_
- STA 662 Advanced Statistics in the Behavioral and Biological Sciences II (3) \_\_\_\_\_
- STA 665 Analysis of Survival Data (3) \_\_\_\_\_
- STA 670 Categorical Data Analysis (3) \_\_\_\_\_
- STA 671 Multivariate Analysis (3) \_\_\_\_\_
- STA 673 Statistical Linear Models I (3) \_\_\_\_\_
- STA 674 Statistical Linear Models II (3) \_\_\_\_\_
- STA 675 Advanced Experimental Design (3) \_\_\_\_\_
- STA 676 Sample Survey Methods (3) \_\_\_\_\_
- STA 682 Theory of Time Series (3) \_\_\_\_\_
- STA 703 Topics in High Dimensional Data Analysis (3) \_\_\_\_\_
- MAT 701 Graduate Seminar in Computational Mathematics  
(\_\_\_\_ credit hours) \_\_\_\_\_
- STA 701 Seminar in Computational Statistics  
(\_\_\_\_ credit hours) \_\_\_\_\_
- MAT 709 Topics in Computational Mathematics  
(\_\_\_\_ credit hours) \_\_\_\_\_



Choose additional electives that do not count toward the required 48 hours.

- MAT 695 Mathematical Analysis (3) \_\_\_\_\_
- MAT 696 Mathematical Analysis (3) \_\_\_\_\_
- MAT 601 Seminar in the Teaching of Mathematics I (1) \_\_\_\_\_
- MAT 602 Seminar in Mathematical Software (3) \_\_\_\_\_
- MAT 603 Practicum in the Teaching of Mathematics (2) \_\_\_\_\_

#### QUALIFYING EXAMS

Chose two areas.

- Mathematical Analysis \_\_\_\_\_
- Linear Algebra and Matrix Theory \_\_\_\_\_
- Linear Models \_\_\_\_\_
- Mathematical Statistics \_\_\_\_\_

#### PRELIMINARY EXAMINATION

- Written component \_\_\_\_\_
- Oral component \_\_\_\_\_

#### DISSERTATION RESEARCH

Include 18–21 credit hours of MAT 799 Dissertation in required 48 hours.

Dissertation committee: \_\_\_\_\_ (Chair)

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- Oral topic proposal and defense \_\_\_\_\_
- Written dissertation research outline \_\_\_\_\_
- Oral dissertation presentation and defense \_\_\_\_\_

SIGNATURES

Sign and print below.

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

\_\_\_\_\_

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

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