



Secondary Mathematics Teacher Certification Requirements

Mathematics

Undergraduate Program

Candidate: _____

Initial GPA: _____ Campus ID: _____

Advisor: _____

Date: _____ Date: _____ Date: _____

Date: _____ Date: _____ Date: _____

MATHEMATICS CORE REQUIREMENTS

| | Semester taken | Grade |
|--------------------------------------------------|----------------|-------|
| MATH 151 Calculus and Analytical Geometry I | _____ | _____ |
| MATH 152 Calculus and Analytical Geometry II | _____ | _____ |
| MATH 221 Introduction to Linear Algebra | _____ | _____ |
| MATH 225 Introduction to Differential Equations | _____ | _____ |
| MATH 251 Multi-Variable Calculus | _____ | _____ |
| MATH 301 Introduction to Mathematical Analysis I | _____ | _____ |
| CMSC 201 Computer Science I | _____ | _____ |

MATHEMATICS EDUCATION CONCENTRATION REQUIREMENTS

| | | |
|-----------------------------------------------------------------------------------------------|-------|-------|
| MATH 306 Geometry | _____ | _____ |
| MATH 407 Introduction to Modern Algebra and Number Theory | _____ | _____ |
| MATH 341 Computational; Methods OR | _____ | _____ |
| MATH 430 Matrix Algebra OR | _____ | _____ |
| MATH 441 Introduction to Numerical Analysis | _____ | _____ |
| MATH 385 Introduction to Mathematical Modeling OR | _____ | _____ |
| MATH 481 Mathematical Modeling | _____ | _____ |
| STAT 355 Introduction to Probability and Statistics For Scientists and Engineers OR | _____ | _____ |
| STAT 451 Introduction to Probability | _____ | _____ |
| STAT 453 Introduction to Mathematical Statistics | _____ | _____ |

SUPPLEMENTARY ELECTIVES

| | | |
|---------------------------------|-------|-------|
| MATH 432 History of Mathematics | _____ | _____ |
| CMSC 203 Discrete Structures | _____ | _____ |

(M) (R) (W) (C)

PRAXIS I _____
PRAXIS II _____

A composite score of 527 on PRAXIS I or qualified SAT or ACT score is required for admission. PRAXIS II must be passed for program completion and certification. Students may be admitted provisionally without passing PRAXIS I but are required to successfully complete PRAXIS I by the end of the first semester of study in the program.

Professional Education Requirements:

A GPA of 2.75 is required for program entry. A GPA of 3.0 is required for entering internship. Students must attain a B or better in all required education courses at the 400 level.

| | Semester | Grade |
|---------------------------------------------------------------------------------------------------------------|----------|-------|
| EDUC 310 Inquiry into Education | _____ | _____ |
| EDUC 311 Psychological Foundations of Education | _____ | _____ |
| EDUC 388 Inclusion and Instruction | _____ | _____ |
| EDUC 410 Reading in the Content Area I | _____ | _____ |
| EDUC 411 Reading in the Content Area II | _____ | _____ |
| EDUC 412 Analysis of Teaching and Learning | _____ | _____ |
| EDUC 426 Secondary Mathematics Methods (Also serves as a supplementary elective for the Mathematics BA) | _____ | _____ |
| EDUC 456 Internship in Secondary Education | _____ | _____ |
| EDUC 457 Internship Seminar in Secondary Education | _____ | _____ |

Comments:

Notes:

Students in the teacher certification program should see their academic major advisor and their education advisor every semester. The education advisor is responsible for the requirements of the teacher certification program only. All major and University requirements should be confirmed with your academic major advisor.

Neither the mathematics electives nor the supplementary electives are elective except within categories; all are required by the certificate program in Mathematics Education.

One physics course and one economics course are also required in this program. Students earning a BS in Mathematics must also take MATH 302 or MATH 401; PHYS 121, PHYS 122, and the sequence STAT 451-453 or a second course selected from MATH 341, MATH 430, or MATH 441.