

MATHEMATICS EDUCATION REQUIREMENTS (BSE)

CIFLD 344 & CIFLD 442 MATH PRE-STUDENT TEACHING, SECONDARY LEVEL and MATH STUDENT TEACHING, MIDDLE LEVEL

Code	Title	Units
Major Requirements		
MATH 200	MATHEMATICS: FORM AND FUNCTION	1
MATH 248	TUTORING SEMINAR	1
MATH 253	CALCULUS AND ANALYTIC GEOMETRY I	5
MATH 254	CALCULUS AND ANALYTIC GEOMETRY II	4
MATH 255	CALCULUS AND ANALYTIC GEOMETRY III	4
MATH 270	PROBLEM SOLVING FOR MATHEMATICS TEACHERS	3
MATH 280	DISCRETE MATHEMATICS	3
MATH 301	INTRODUCTION TO ANALYSIS	3
MATH 333	EUCLIDEAN GEOMETRY	3
MATH 355	MATRICES AND LINEAR ALGEBRA	3
MATH 359	PROBABILITY & STATISTICS FOR TEACHERS	3
MATH 421	MATHEMATICS FOR HIGH SCHOOL TEACHERS I	3
MATH 422	MATHEMATICS FOR HIGH SCHOOL TEACHERS II	3
MATH 433	NON-EUCLIDEAN GEOMETRY	3
MATH 452	INTRODUCTION TO ABSTRACT ALGEBRA	3
STAT 230	INTRODUCTION TO STATISTICAL REASONING AND ANALYSIS	3
Total Units		48

Total Units 44

¹ This emphasis is suited to students interested in a career as a mathematics educator at the secondary school level.

² GPA requirements:

- to graduate from the College of Education and Professional Studies, students in a BSE licensure major must have at least a combined GPA of 2.75;
- students must achieve a grade of "C" (2.00) or better in all required courses with the prefixes EDFOUND, EDFNDPRC, ELEMMD, CIGENRL, SECNDED, or SPECED before they can enroll in CIFLD 442 or CIFLD 444; and
- must maintain a content GPA of at least 3.00 across all major requirements and CIGENRL 400, EDFOUND 425, ELEMMD 425, and SECNDED 428, or pass the standardized content knowledge test approved by the State Superintendent.

Code	Title	Units
Licensure Requirements ^{1, 2}		
SPECED 205	INTRODUCTION TO SPECIAL EDUCATION	3
CIGENRL 350	INTRODUCTION TO BILINGUAL/ BICULTURAL EDUCATION AND ESL	3
EDFNDPRC 210	INTRODUCTION TO EDUCATION AND TEACHING	3
EDFOUND 212	EDUCATIONAL PSYCHOLOGY	3
EDFOUND 243	FOUNDATIONS OF EDUCATION IN A PLURALISTIC SOCIETY	3
ELEMMD 425	TEACHING MATHEMATICS IN THE ELEMENTARY/MIDDLE GRADES	3
SECNDED 428	THE TEACHING OF MATHEMATICS IN THE SECONDARY SCHOOL	3
SECNDED 466	LITERACY IN THE DISCIPLINES	3
EDFOUND 425	MEASUREMENT AND EVALUATION IN THE SECONDARY SCHOOL	3
CIGENRL 400	PEDAGOGY AND PRACTICE OF MATHEMATICAL MODELING FOR STEAM TEACHING	3
CIGENRL 470	STUDENT TEACHING SEMINAR	2
Student Teaching - Select one of the following options:		12
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