

# ECU COURSE CATALOG

## 2024-2025 EDUCATION MATHEMATICS COURSES

EDMA-S5981 Seminar in Edma

1 Credit

DIRECTED INTENSIVE STUDY ON SELECTED PROBLEM OR SPECIAL TOPIC.

### EDMA-5243 Assessment and Treatment of Mathematics Difficulties 3 Credits

PREREQ: VALID TEACHER CERTIFICATION IN ELEMENTARY EDUCATION AND/OR EARLY CHILDHOOD EDUCATION AND TWO YEARS OF FULL-TIME TEACHING EXPERIENCE IN GRADES PRE-KINDERGARTEN THROUGH GRADE 5 AT AN ACCREDITED SCHOOL UNDER A VALID STATE ISSUED TEACHER CREDENTIAL. THIS COURSE WILL EXAMINE DIFFICULTIES STUDENTS HAVE WITH ACQUISITION OF TYPICAL ARITHMETIC SKILLS. THE FOCUS WILL BE ON DIAGNOSING AND DETERMINING INTERVENTIONS FOR AT RISK STUDENTS (I.E., STUDENTS WITH DYSCALCULIA AND/OR OTHER MATHEMATICS-RELA

### EDMA-5663 Mathematics Leadership and Mentoring 3 Credits

PREREQ: VALID TEACHER CERTIFICATION IN ELEMENTARY EDUCATION AND/OR EARLY CHILDHOOD EDUCATION AND TWO YEARS OF FULL-TIME TEACHING EXPERIENCE IN GRADES PRE-KINDERGARTEN THROUGH GRADE 5 AT AN ACCREDITED SCHOOL UNDER A VALID STATE ISSUED TEACHER CREDENTIAL. THIS COURSE WILL PROVIDE STUDENTS WITH THE MOST CURRENT UNDERSTANDING OF MATHEMATICS CONSULTATION AND MENTORING. TOPICS WILL INCLUDE LEADERSHIP FOR SCHOOL MATHEMATICS PROGRAMS, COLLABORATION WITH TEACHERS AND OTHER PROFESSIONALS, DATA ANALYSIS

### EDMA-5713 Number Concepts and Operations-Pedagogy In Mathematics 3 Credits

PREREQ: VALID TEACHER CERTIFICATION IN ELEMENTARY EDUCATION AND/OR EARLY CHILDHOOD EDUCATION AND TWO YEARS OF FULL-TIME TEACHING EXPERIENCE IN GRADES PRE-KINDERGARTEN THROUGH GRADE 5 AT AN ACCREDITED SCHOOL UNDER A VALID STATE ISSUED TEACHER CREDENTIAL. THIS COURSE IS DESIGNED FOR EDUCATORS TO DEEPEN THEIR CONCEPTUAL AND PROCEDURAL UNDERSTANDINGS OF NUMBER CONCEPTS AND OPERATIONS AS WELL AS STRENGTHEN THEIR PEDAGOGICAL KNOWLEDGE OF HOW K-12 STUDENTS DEVELOP FLUENCY IN NUMBER CONCEPTS AND OPERA

### EDMA-5723 Geometry and Measurement-Pedagogy in Mathematics 3 Credits

PREREQ: VALID TEACHER CERTIFICATION IN ELEMENTARY EDUCATION AND/OR EARLY CHILDHOOD EDUCATION AND TWO YEARS OF FULL-TIME TEACHING EXPERIENCE IN GRADES PRE-KINDERGARTEN THROUGH GRADE 5 AT AN ACCREDITED SCHOOL UNDER A VALID STATE ISSUED TEACHER CREDENTIAL. THIS COURSE IS DESIGNED FOR EDUCATORS TO DEEPEN THEIR CONCEPTUAL AND PROCEDURAL UNDERSTANDINGS OF GEOMETRIC IDEAS AS WELL AS STRENGTHEN THEIR PEDAGOGICAL KNOWLEDGE OF HOW K-12 STUDENTS DEVELOP FLUENCY IN GEOMETRICAL REASONING. SPECIAL ATTENTION

### EDMA-5733 Data Analysis and Probability-Pedagogy In Mathematics 3 Credits

PREREQ: VALID TEACHER CERTIFICATION IN ELEMENTARY EDUCATION AND/OR EARLY CHILDHOOD EDUCATION AND TWO YEARS OF FULL-TIME TEACHING EXPERIENCE IN GRADES PRE-KINDERGARTEN THROUGH GRADE 5 AT AN ACCREDITED SCHOOL UNDER A VALID STATE ISSUED TEACHER CREDENTIAL. THIS COURSE IS DESIGNED FOR EDUCATORS TO DEEPEN THEIR CONCEPTUAL AND PROCEDURAL UNDERSTANDINGS OF DATA ANALYSIS AND PROBABILITY AS WELL AS STRENGTHEN THEIR PEDAGOGICAL KNOWLEDGE OF HOW K-12 STUDENTS DEVELOP FLUENCY IN DATA ANALYSIS AND PROBABIL

### EDMA-5743 Algebra and Functions-Pedagogy in Mathematics 3 Credits

PREREQ: VALID TEACHER CERTIFICATION IN ELEMENTARY EDUCATION AND/OR EARLY CHILDHOOD EDUCATION AND TWO YEARS OF FULL-TIME TEACHING EXPERIENCE IN GRADES PRE-KINDERGARTEN THROUGH GRADE 5 AT AN ACCREDITED SCHOOL UNDER A VALID STATE ISSUED TEACHER CREDENTIAL. THIS COURSE IS DESIGNED FOR EDUCATORS TO DEEPEN THEIR CONCEPTUAL AND PROCEDURAL UNDERSTANDINGS OF ALGEBRAIC IDEAS AS WELL AS STRENGTHEN THEIR PEDAGOGICAL KNOWLEDGE OF HOW K-12 STUDENTS DEVELOP FLUENCY IN ALGEBRAIC REASONING. SPECIAL ATTENTION WI