# MATHEMATICS MAJOR
## WITH COORDINATE MAJOR IN EARLY CHILDHOOD OR ELEMENTARY EDUCATION (MAE)
### (The Domain General Education courses listed below are required for Elementary Education and recommended for the Early Childhood Education Major.)

**DOMAIN GENERAL EDUCATION (11 Courses Required):**

| COURSE # | TITLE | SUBDOMAINS MET |
|---|---|---|
| ENGL 110 | Expository Writing | CCA |
| MATH 120 | Math for Elem Educators II* | CCB |
| INTD 160 | Image, Sound & Structure | IA |
| ENGL 262 | American Writers II | IIB |
| ML | Any language course | IC |
| PHYS 109 | Introduction to Phys. Science | IIB |
| BIOL 101 | Biological Concepts | IIB |
| HIST 151 | U.S. History to Reconstruction* | IIIA |
| PSYC 200 | Psychology of Development ** | IIIB |
| GEOG 110 | World Regional Geography | IIIC |
| EDUC 222 | Sheltered English Immersion ** | IIIC |

*Required of El. Ed.; recommended for Early Childhood
**Required of both El. Ed. and Early Childhood

### Domain General Education Subdomains
**(check off as completed)**

| | | |
|---|---|---|
| Common Core: | A. ENGL 110 Expository Writing | _____ |
| | B. MATH XXX (credit-bearing) | _____ |
| Domain I: | A. Creative Arts | _____ |
| | B. Humanities | _____ |
| | C. Language | |
| Domain II: | A. Analysis, Modeling, Problem Solving | X |
| | B. Natural Sciences (two) | _____ |
| Domain III: | A. Perspectives on the Past | _____ |
| | B. Perspectives on Contemp. World | _____ |
| | C. Global Comp., Eth. Reas., Human Div. | _____ |

_____ Laboratory Science    _____ Study of the Constitutions
X = Fulfilled through major

**MAJOR AND RELATED COURSES (12):**

| COURSE # | COURSE TITLE |
|---|---|
| MATH 110 | Math for Elem Educators I |
| STAT 157 | Probability and Statistics |
| MATH 206 | Discrete Math I |
| MATH 219 | Calculus I |
| MATH 220 | Calculus II |
| MATH 221 | Calculus III |
| MATH 226 | Linear Algebra and Applications |
| MATH 319 | Abstract Algebra I |
| MATH 322 | History of Mathematics |
| CSCI | One Computer Science course |

**In addition to the courses above, each student must complete:**

**ONE (1) ELECTIVE IN MATHEMATICS AT 300 LEVEL OR ABOVE**

MATH ____    _____

**ONE (1) ELECTIVE CHOSEN FROM THE FOLLOWING:**

| COURSE # | TITLE |
|---|---|
| MATH 215 | Finite Mathematics |
| MATH 222 | Differential Equations |
| _____ | Any MATH course at the 300-level or above |

**ONE FREE ELECTIVE**

_____    _____

**2018-2019**

# COORDINATE MAJOR – EDUCATION COURSES

## EARLY CHILDHOOD EDUCATION (ECC):

| | |
|---|---|
| **EDUC 200** | **Education in American Society with Field Study I** |
| **EDUC 320** | **Emergent Literacy with Field Study II** |
| **EDUC 374** | **Early Childhood Curriculum: Mathematics and Science with Field Study III** |
| **EDUC 376** | **Early Childhood Curriculum: Reading, Social Studies and Special Needs** |
| **EDUC 431** | **Early Childhood Professional Practicum A (Credit - 2 courses)** |
| **EDUC 432** | **Early Childhood Professional Practicum B (Credit - 2 courses)** |

**Note: EDUC 374 and EDUC 376 must be taken together.**

## ELEMENTARY EDUCATION (ELC):

| | |
|---|---|
| **EDUC 200** | **Education in American Society with Field Study I** |
| **EDUC 322** | **The Child & Literacy, with Field Study II** |
| **EDUC 341** | **Elementary Curriculum: Mathematics with Field Study III** |
| **EDUC 346** | **Elementary Curriculum: Science, Social Studies, and Special Needs** |
| **EDUC 437** | **Elementary Professional Practicum A (Credit - 2 courses)** |
| **EDUC 438** | **Elementary Professional Practicum B (Credit - 2 courses)** |

**Note: EDUC 341 and EDUC 346 must be taken together.**

**2018-2019**