A student selecting this option will only be certified to teach mathematics at the middle level grades 4-8.

PDE Competency Areas

I. Content Knowledge: 81 credits including General Education Requirements which are indicated by an *
   A total of 33 credits are counted in a dual capacity

Concentration Area

A. Math: 30 credits required
   - MAT 105 Math for Liberal Studies (3)
   - MAT 205 Survey of Middle Grades Mathematics (3)
   - MAT 175 Precalculus (3) *(See note on Prerequisites)
   - MAT 211 Calculus I (4) *(See note on Prerequisites)
   - MAT 225 Discrete Math *(4) *(See note Prerequisites)
   - MAT 217 Statistics I (4) *(Prerequisite MAT 211)
   - MAT 333 Geometry (3)
   - Two of the following:
     - MAT 318 Elementary Linear Algebra (3) *(See note on Prerequisites)
     - MAT 326 Mathematical Modeling (3) *(See note on Prerequisites)
     - MAT 400 History of Mathematics (3) *(See note on Prerequisites)

Concentration Area

B. Language Arts: 12 credits required
   - ENG 114 Writing Intensive Seminar (3) *
   - ENG 110 Advanced Placement Writing (3) *
   - HCS 100 Intro to Human Communication (3) *
   - RDG 232 Reading in the Elementary School (3)
   - RDG 329 Reading in the Content Area (3) *(Prerequisite RDG 232)

C. Science: 12 credits required
   - BIO 100 Basic Biology (3) *
   - CHM 105 An Observational Approach (3) *
   - PHY 121 Physics I (3)
   - ESS 110 Introduction to Geology (3) *

D. Social Studies: 12 credits required
   - GEO 101 World Geography (3) *
   - ECO 101 Macroeconomics (3) * or
   - PLS 100 U.S. Government and Politics (3) *
   - HIS 105 Historical Foundation of Global Cultures (3) *
   - HIS 106 Thinking Historically in a Global Age (3) *

Additional Coursework

E. Literature: 3 credits
   - ENG 243 Art of the Film (3) *
   - ENG 248 Intro to Culturally Diverse Lit (3) *
   - ENG 250 Intro to Literature (3) *

F. Fine Arts: 6 credits
   (Select two from different disciplines)
   - Music
     - MUS 110 Fundamental Music Skills (3) *
     - MUS 121 Introduction to Music (3) *
     - MUS 261 World Music (3) *
   - Art (ART 101 is recommended)
     - ART 101 Art Appreciation (3) *
     - ART 231 Art History I (3) *
     - ART 232 Art History II (3) *
     - ART 274 Intro to Cultural Studio (3) *
     - ART 339 History of American Art (3) *
   - Theatre
     - THE 121 Intro to Theatre (3) *

G. Social and Behavioral Sciences: 6 credits
   - PSY 101 General Psychology (3) *
   - Choose one of the following:
     - ANT 111 Cultural Anthropology (3) *
     - GEO 140 Cultural Geography (3) *
     - SOC 101 Intro. to Soc. Society & Div. (3) *

II. Professional Core & Student Teaching: 39 credits

A. Middle Level Cognitive Development
   - TCH 206 Social Found of Middle Level Educ (3)

B. Early Adolescent and Adolescent Learning Theory
   - TCH 261 Adolescent Dev and Lang Theory (3)

C. Assessments and Interventions
   - EEC 483 Assessing Children with Exceptionalities for Curricular Decision Making (3)
   - TCH 345 Assessment and Evaluation (3)

D. Adaptations and Accommodations for Diverse Learners
   - EEC 273 Introduction to Exceptionalities: Understanding Diverse Learners (3)
   - EEC 423 Effective Instructional Strategies for Students with Exceptionalities (3)

E. Middle Level Teaching Methods
   - TCH 342 Teaching Middle Level Mathematics (3)
   - TCH 251 Elements of Middle Level Instruction (3)

F. English Language Learners (ELL)
   - RDG 413 Teach Read to English Lang Learners (3)

G. Student Teaching
   - EDU 495 Student Teaching Experience (12)
Major (Professional Education) Requirements

Note on Prerequisites

Precalculus: MAT140A, MAT140B, math placement level 5, or permission of department chair.

Calculus I: Students must meet one of the following prerequisites: C or better in MAT175 or math placement level 6. However, a prerequisite override could be granted based on a recommendation to the math department from the student’s advisor.

Discrete Math: Students must meet one of the following prerequisites: MAT140A or math placement level 4 or above.
Introduction to Abstract Algebra: C or better in MAT 325 and MAT 318

Mathematical Modeling: Either CSC180 or CS110 and either MAT213 or MAT318, or by permission of the instructor

History of Mathematics: MAT20 or at least junior standing

This planning sheet is for Freshman entered Fall 2017 or later

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Content Classes

Students electing certain minors can be required to complete more credits to complete both the elementary program and the requirements of the selected minor. ALL students are required to complete at least 120 credit hours for graduation. The final responsibility for scheduling and fulfilling program requirements belongs to the student. Majors failing to maintain the department required QPA of 3.0 will not be permitted to schedule elementary courses until they have reached the required QPA.