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

**PDE Competency Areas**

**I. Content Knowledge:** 31 credits including General Education Requirements which are indicated by an *
A total of 33 credits are counted in a dual capacity

**Concentration Areas**

**A. Math:** 21 credits required

- MAT 105 Math For Liberal Studies (3)*
- MAT 205 Survey of Middle Grades Mathematics (3)
- MAT 117 Applied Statistics (4)
- MAT 211 Calculus I (4) * (See note for Prerequisites)
- MAT 225 Discrete Math (4) * (See note for Prerequisites)
- MAT 333 Geometry (3)

**B. Language Arts:** 21 credits required

- ENG 190 Literacy in America (3)* or ENG 248 Intro to Culturally Diverse Lit (3)* or ENG 250 Intro to Literature (3)*
- ENG 420 Studies in Writing (3)
- ENG 426 Adolescent Literature (3)
- RDG 232 Reading in the Elementary School (3)
- RDG 334 Literacy Assessment (3) *(Prerequisite RDG 232)*
- RDG 340 Seminar in Literacy Tutoring (3) *(Prerequisite RDG 232 and RDG 334)*
- ENG 114 Writing Intensive Seminar (3)* or ENG 110 Advanced Placement Writing* (3)

**Cognate Areas**

**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)*

**E. Writing/Fluency Competencies:** 3 credits

- HCS 100 Intro to Human Communication* (3)

**F. Fine Arts:** 6 credits

(Select two from different disciplines)
- Music
  - MUS 110 Fundamental Music Skills (3)* or MUS 121 Introduction to Music (3)* or MUS 261 World Music (3)*
- Art (ART 101 is recommended)
  - ART 231 Art History I (3)* or ART 222 Art History II (3)* or ART 274 Intro to Cultural Studio (3)* or ART 339 History of American Art (3)*

**G. Social and Behavioral Sciences:** 6 credits

- PSY 101 General Psychology (3)*
- Choose one of the following
  - ANT 111 Cultural Anthropology (3)* or GEO 140 Cultural Geography (3)* or 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 Lng Theory (3)

**C. Assessments and Interventions**
- EEC 483 Assessing Children with Exceptionalities for Curricular Decision Making (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 322 Teaching Middle Level Language Arts (3)
- TCH 342 Teaching Middle Level Mathematics (3)
- RDG 329 Reading in the Content Area (3)

**F. English Language Learners (ELL)**
- RDG 413 Teaching Reading to English Language Learners (3)

**G. Student Teaching**
- EDU 405 Student Teaching Experience (12)