SHIPPENSBURG UNIVERSITY
DEPARTMENT OF TEACHER EDUCATION
PROGRAM PLANNING SHEET
Elementary/Middle Level Option #2- Math & Science

Name: ____________________  Advisor: ____________________  Student ID: ____________________

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

PDE Competency Areas
I. Content Knowledge: 82-83 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. Science: 22-23 credits required
   ___ BIO 100 Basic Biology (3)* or
      BIO 162 Principles of Biology: Organismal Diversity (4)
   ___ CHM 105 An Observational Approach (3)*
   ___ PHY 108 Astronomy (3)
   ___ PHY 121 Physics I (3)
   ___ PHY 123 Physics I Lab (1)
   ___ ESS 110 Introduction to Geology (3)*
   ___ ESS 111 Intro to the Atmosphere (3)
   ___ BIO 142 Intro to Ecology (3) or
   ___ BIO 145 Environmental Biology (3)

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

D. Language Arts: 12 credits required
   ___ ENG 114 Writing Intensive Seminar (3)* or
      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)

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

F. Fine Arts: 6 credits *(Select two from different disciplines)
   ___ MUS 110 Fundamental Music Skills (3)* or
      MUS 121 Introduction to Music (3)* or
      MUS 261 World Music (3)*

   ___ ART 101 Art Appreciation (3)* or
      ART 231 Art History I (3)* or
      ART 232 Art History II (3)* or
      ART 274 Intro to Cultural Studio (3)* or
      ART 339 History of American Art (3)*

   ___ 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)* 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 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 366 Teaching Middle Level Science (3)

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

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

**Note on Prerequisites**

**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

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This planning sheet is for
Freshman entered
Fall 2017 or later

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