

SHIPPENSBURG UNIVERSITY
DEPARTMENT OF TEACHER EDUCATION
PROGRAM PLANNING SHEET
Elementary/Middle Level Option #1- Math

Name: _____ Advisor: _____ Student ID: _____

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)*

Cognate Areas

B. 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)*

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)* 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)

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 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)*

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)* 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)
- ___ 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)

More on back 

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: MAT320 or at least junior standing

This planning sheet is for
Freshman entered
Fall 2017 or later

Semester 1
Gen Eds

Semester 2
Gen Eds

Semester 3
Content Classes

Semester 4
Content Classes
TCH 206

Semester 5
Content Classes
EEC 273
TCH 345

Semester 6
TCH 261
EEC 423
Content Classes

Semester 7
TCH 251
TCH 342
Content Classes

Semester 8
EDU 495
EEC 483

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.