

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

TOTAL CREDITS: 121-125

Name: _____ Advisor: _____ Student ID: _____

A student selecting this option will be certified to teach mathematics in grades 4-8 and all subjects in grades 4 and 5.

1. General Education: 46-47

Foundations: 15-16 Credits

	CR	GR
UNIV 101	3	
ENG 114 Writing Intensive Seminar	3	
HCS 100 Introduction to Human Communication	3	
HIS 105 Historical Foundation of Global Cultures	3	
MAT 117 Applied Statistics (3) <i>(Math placement levels 2-4)</i> <u>Prerequisite:</u> Math placement level 2 or MAT 050 with minimum grade C OR MAT 217 Statistics I (4) <i>(Math placement levels 5-6)</i> <u>Prerequisite:</u> Math placement level 5	3/4	

Interconnections: 9 Credits

	CR	SM
<i>Required Diversity Course and select at least 1 Global Perspectives Course</i>	9	Total
<i>Required Diversity Course</i>	3	
PSY 101 General Psychology	3	
<i>Global Perspectives Course Options</i>		
ANT 105 Great Discoveries in Archaeology OR ECO 101 Principles of Macroeconomics OR GEO 101 World Geography OR HIS 106 Thinking Historically in a Global Age OR PLS 141 World Politics		
<i>Foreign Language Course Options</i>		
SPN 101 Beginning Spanish I Credits OR SPN 102 Beginning Spanish II Credits OR SPN 103 Intermediate Spanish Credits OR SPN 202 Intermediate Conversation Credits OR SPN 330 Spanish for the Professions Credits		

Natural World and Technologies: 9 credits

	CR	SM
<i>Select 3 Natural World Courses- only two courses with same prefix permitted</i>	9	Total
<i>Natural World Course Options</i>		
ESS 111 Introduction to Atmosphere OR ESS 210 Physical Geography OR PHY 108 Astronomy OR PHY 110 Physics for Society OR PHY 121 Physics I OR PHY 122 Introductory Physics II OR PHY 205 Intermediate Physics I OR ANT 121 Physical Anthropology OR BIO 100 Basic Biology OR		

BIO 145 Environmental Biology OR BIO 150 Human Biology OR BIO 161 Principles of Biology: Cell Structure OR BIO 162 Principles of Biology: Organismal Diversity OR BIO 208 Field Biology OR BIO 237 Human Anatomy & Physiology OR CHM 103 A Cultural Approach OR CHM 105 An Observational Approach OR CHM 121 Chemical Bonding OR ESS 110 Introduction to Geology OR			
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Citizenship and Responsibility: 7 Credits

	CR	SM
<i>Select 1 Ethical Reasoning or Citizenship Course</i>	3	Total
<i>Citizenship Course Options</i>		
ESS 108 Introduction to Sustainability OR HIS 201 Early History of the United States OR PLS 100 United States Government and Politics		
<i>Required Ethical Reasoning Course</i>		
PHL 105 Ethical Theories and Problems		
<i>Required Critical Reasoning Course</i>		
MAT 225 Discrete Math (R) <i>(Math placement levels 4-6)</i> <u>Prerequisite:</u> MAT 140A or math placement level 4 or MAT 140B or MAT 175 or MAT 211 or MAT 181	4	

Creativity and Expressions: 6 Credits

	CR	SM
<i>Select 1 Literature and 1 Art Course</i>	6	Total
<i>Literature Course Options</i>		
ENG 248 Introduction to Culturally Diverse Literature of the U.S OR ENG 250 Introduction to Literature OR THE 121 Introduction to the Theater OR ENG224 Intro to Creative Writing	3	
<i>Art Course Options</i>		
ART 101 Art Appreciation OR ART 231 Art History I OR ART 232 Art History II OR ART 233 Art History III OR ART 339 History of American Art OR IAP 111 Introduction to Interdisciplinary Arts OR MUS 121 Introduction to Music OR MUS 129 American Popular Music OR MUS 227 Opera & Music Theatre OR MUS 261 World Music	3	

1. Professional Core (36 credits)**A. Middle Level Cognitive Development** CR SM

TCH 206 Social Foundations of Middle Level Education	3	
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B. Early Adolescent and Adolescent Learning CR SM

TCH 261 Adolescent Development and Language Theory	3	
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C. Assessments and Interventions CR SM

EEC 483 Assessing Children with Exceptionalities for Curricular Decision Making	3	
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D. Adaptations and Accommodations for Diverse Learners

CR SM

EEC 273 Introduction to Exceptionalities: Understanding Diverse Learners	3	
EEC 423 Effective Instructional Strategies for Students with Exceptionalities	3	

E. Middle Level Teaching Courses CR SM

RDG 232 Reading in the Elementary School	3	
RDG 329 Reading in the Content Area	3	
RDG 405 Teaching Writing in 4-8 Classrooms	3	
TCH 251 Elements of Middle Level Instruction	3	
TCH 342 Teaching Middle Level Mathematics	3	
TCH 345 Assessment and Evaluation	3	

F. English Language Learners (ELL) CR SM

RDG 413 Teaching Reading to English Language Learners	3	
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3. Concentration area (15-17 credits):**A. Required** CR SM

MAT 105 Mathematics for Liberal Arts (<i>Math placement levels 2-6</i>) <u>Prerequisite:</u> Math placement level 2 or MAT 050 with minimum grade C	3	
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B. Take one from each row (12-13 credits) CR SM

MAT 205 Concepts of Middle Level Math	3	
MAT 181 Applied Calculus (3 credits) (<i>Math placement levels 5-6</i>) <u>Prerequisite:</u> MAT 140A with minimum grade C or MAT 140B with minimum grade C OR MAT 175 with minimum grade C or math placement level 5 OR MAT 211 Calculus I (4 credits) (<i>Math placement level 6</i>) <u>Prerequisite:</u> MAT 175 with minimum grade C or math placement level 6	3-4	
MAT 333 Geometry (3 credits) <u>Prerequisite:</u> MAT 225 OR MAT 400 History of Math (3) <u>Prerequisite:</u> Junior status OR MAT 317 Statistics II (3 credits) <u>Prerequisite:</u> MAT 217	3	
MAT Elective (200/300/400 course)	3	

4. Free electives (9-10 credits): CR SM

Any 3 courses	9	
1. Calculus (recommended)	4	
2.		
3.		

5. Student Teaching (15 credits): CR SM

EDU 409 Seminar in Middle Level Student Teaching	3	
EDU 495 Student Teaching Experience	12	

KEY:

CR = Credits the course is worth

SM = Semester taken

Math Option 1 Course Rotation – 118-120 credits

Semester 1 – 15 credits

General Education/Professional Core/Concen.

Semester 3 – 14-15 credits

General Education/Professional Core/Cocen.

EEC 273 Intro to Exceptionalities

Semester 5 – 14-15 credits

General Education/Professional Core/Cocen.

TCH 345 Assessment and Evaluation

RDG 329 Reading in the Content Areas

Semester 7 – 15 credits

General Education Courses/Electives

TCH 251 Elements of Middle Level Instruction

TCH 342 Teaching Middle Level Math

EEC 483 Assessing Children

RDG 413 Teaching Reading to ELL

Semester 2 – 14-15 credits

General Education/Professional Core/Concen.

Semester 4 – 14-15 credits

General Education/Professional Core/Concen.

TCH 206

RDG 232

TCH 261

Semester 6 – 15 credits

General Education/Professional Core/Concen.

RDG 405 Teaching Writing in ES

EEC 423 Effective Instruct. Strat.

Semester 8 – 15 credits

EDU 495 Student Teaching (12 credits)

EDU 409 Professional Practicum (3 credits)