

# Slippery Rock University of Pennsylvania – Curriculum Guide

## Bachelor of Science in Education Middle-Level Mathematics (4-8)

LIBERAL STUDIES REQUIREMENTS (51-52 credits)				
See Liberal Studies Guide for Goal and Enrichment choices				
GOAL COURSE REQUIREMENTS				
Complete Goal requirements as indicated below (42-43 credits)				
✓	Course	Title	Cr	Gr
<b>Basic Requirements (6 credits) - ENGL101&amp;103 required if student entered SRU prior to Fall 2011. ENGL102 required if student entered SRU Fall 2011 forward.</b>				
	ENGL 101 <i>and</i> ENGL 103 <i>or</i> ENGL 102	College Writing I <i>and</i> College Writing II <i>or</i> College Writing	3 3 3	
	ENGL 210	Interpreting Literature★	3	
<b>The Arts (3 credits)</b>				
	ART 225	Overview of Western Art	3	
	ART 226	Overview of World Art	3	
	DANC 100	Introduction to Dance	3	
	MUSI 101	Introduction to Music	3	
	THEA 141	Introduction to Theatre	3	
<b>Global Community (6 credits)</b>				
Select two Non-U.S. Goal Courses from the following list of courses. MUST be from different departments.				
	GES 100	Discover Geography	3	
	GES 105	World Regional Geography	3	
	GES 107	Developed World	3	
	GES 109	Developing World	3	
	HIST 151	Ancient & Medieval World	3	
	HIST 152	Rise of the Modern World	3	
	HIST 153	Contemporary World History	3	
	POLS 103	International Relations	3	
	PROF 202	Introduction to Anthropology	3	
	SOWK 105	Human Diversity	3	
<b>Global Community (3 credits)</b>				
Select one U.S. Goal Course from the following list of courses.				
	GES 202	United States & Canada	3	
	HIST 201	Colonial America to 1815	3	
	HIST 202	United States 1815-1920	3	
	HIST 203	U.S. History since 1920	3	
	POLS 101	American National Government	3	
	PROF 101	Taxes in America	3	
<b>Human Institutions &amp; Interpersonal Relationships (3 credits)</b>				
	PSYC 105	Intro to Psychology	3	
	PROF 201	Principles of Sociology	3	
<b>Science, Technology &amp; Math (18-19 credits total)</b>				
<b>Science (6-7 credits)</b> Select two science goal courses, each from different departments.				
	BIOL 101	General Biology	3	
	BIOL 104	Principles of Biology / Lab	3	
	BIOL 105	Environmental Biology	3	
	BIOL 216	Anatomy & Physiology / Lab	3	
	CHEM 104	Introduction to Chemistry I	3	
	CHEM 107/111	General Chemistry / Lab ★	4	
	EGEO 100	Environmental Geology	3	
	EGEO 101	Physical Geology	3	
	EGEO 121	Meteorology / Lab	3	
	PHYS 101	Concepts of Science / Lab	3	
	PHYS 201	Elements of Physics I / Lab	3	
	PHYS 211	General Physics I / Lab ★	4	
<b>Math (12 credits)</b>				
	MATH 118	Elementary Geometry ★	3	
	MATH 152	Elementary Statistics I ★	3	
	MATH 210	Elementary Math I ★	3	
	MATH 310	Elementary Math II ★	3	
<b>Challenges of the Modern Age (3 credits)</b>				
Select one of the following goal courses. Student must have at least 45 semester hours to enroll in this group of courses.				
	BIOL 300	Soc. & Eth. Issues in Genetics ★	3	
	PHYS 317	Space Science	3	

LIBERAL STUDIES REQUIREMENTS (continued)				
ENRICHMENT COURSES (9 credits)				
✓	Course	Title	Cr	Gr
<b>The Arts (3 credits)</b>				
	ENGL 214	Film Analysis	3	
	ENGL 242	Afro-American Literature ★	3	
	ENGL 243	Lit. of Women's Movement★	3	
	ENGL 244	Native American Literature ★	3	
	ENGL 248	Eastern Literature ★	3	
	ENGL 311	Chaucer ★	3	
	ENGL 312	Shakespeare ★	3	
	ENGL 314	European film ★	3	
	ENGL 315	Cinematic Review ★	3	
	ENGL 317	British Literature I ★	3	
	ENGL 318	British Literature II ★	3	
	ENGL 319	American Literature I ★	3	
	ENGL 320	American Literature II ★	3	
	ENGL 402	World Literature ★	3	
<b>Global Community (3 credits)</b>				
	GES 201	Latin America & the Caribbean	3	
	GES 204	Post-Soviet Union	3	
	GES 242	Geography of Religion	3	
	GES 303	Asia	3	
	GES 308	Europe	3	
	GES 309	Africa	3	
<b>Science, Technology and Mathematics (3 credits)</b>				
	BIOL 101	General Biology	3	
	BIOL 104	Principles of Biology / Lab	3	
	BIOL 105	Environmental Biology	3	
	BIOL 216	Anatomy & Physiology / Lab	3	
	CHEM 104	Introduction to Chemistry I	3	
	CHEM 107/111	General Chemistry / Lab ★	4	
	EGEO 100	Environmental Geology	3	
	EGEO 101	Physical Geology	3	
	EGEO 121	Meteorology / Lab	3	
	PHYS 101	Concepts of Science / Lab	3	
	PHYS 201	Elements of Physics I / Lab	3	
	PHYS 211	General Physics I / Lab ★	4	

OTHER BASIC REQUIREMENTS				
Check with your advisor or a current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree				
	ACSD 110	Beginning Algebra	3	

COMPUTER COMPETENCY (for students entering Fall 2008 and after)				
Students must demonstrate "computer competency" by:				
	Passed Exam	Pass Computer Competency Exam at SRU Orientation		
<b>OR</b>	CPSC _____	<b>Complete one of the following courses:</b> CPSC 100, 110, 130, 210 or PE 202 at SRU or another post-secondary institution	1 - 3	

### IMPORTANT CURRICULUM GUIDE NOTES

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisors to ensure accurate progress towards degree completion. *The information on this guide is current as of the date below. Students are responsible for curriculum requirements at the time of enrollment at the University.*

- ★ Indicates this course may have a prerequisite. Refer to the Undergraduate Online Catalog.
- R Required Course

**Complete “Admission to Teacher Education” Form in sophomore year and prior to registering for SEFE 335 and subsequent 300 level Professional Education courses.**

**Academic Certification & Major Requirements**  
For Student Teaching & Certification – All grades in Professional Education & Specialization Must be Grades “C” or above.

**PROFESSIONAL EDUCATION REQUIREMENTS  
(49 credits)**

✓	Course	Title	Cr	Gr
<b>Note: SPED 315 &amp; SEFE 456 must be taken in the same semester.</b>				
	SPED 121	High Incidence Disabilities	3	
	SEFE 230	Prod. & Utilization of Inst. Tech.	3	
	SEFE 270	Educ. Meas., Assess., & Eval. ★	3	
	SEFE 245	Middle-Level Learning Theory	3	
	SEFE 250	Pre/Early/Adol. Development	3	
	SEFE 300	Middle Level Cognitive Dev.	3	
	SEFE 326	ELL Strategies and Practices	3	
	SEFE 325	Teaching in the Middle School	3	
	SEFE 311	Teaching Middle-Level Math	3	
	SEFE 338	Inst/Assess Includ., Classroom	3	
	SEFE 422	Practicum Middle-Level Grades	1	
	SEFE 380	History & Philosophy of Educ. ★	3	
	SPED 315	SPED Issues in Div. Classroom ★	3	
	SEFE 456	Student Teaching – Mid. Level	12	

**MATH CERTIFICATION SPECIALIZATION  
(30 credits total)**

12 credits from Liberal Studies courses

18 credits from Math Certification Specialization courses

✓	Course	Title	Cr	Gr
<b>Select 18 credits from the following in addition to the Required courses listed below.</b>				
R	MATH 131	Discrete Mathematics ★	3	
R	MATH 225	Calculus I ★	4	
	MATH 122	Matrices and Linear Program ★	3	
	MATH 125	Pre Calculus ★	4	
	MATH 153	Elementary Statistics II ★	3	
	MATH 230	Calculus II ★	4	
	MATH 231	Calculus III ★	4	
	MATH 235	Modern Concepts of Math ★	3	
	MATH 240	Linear Algebra & Differential Eq. ★	3	
	MATH 252	Intro to Statistical Modeling ★	3	

**COMPETENCY**

**CPR/First Aid & Safety Certifications or SAFE 205 is Required**

**Early Field Experience  
Stages 1 & 2 Observation and Exploration**

The College of Education/SEFE at Slippery Rock University requires a minimum of twenty hours in a diverse setting and twenty hours in a content setting for a total of forty (40) contact hours with middle-level 4-8 pupils prior to application for Admission to the College of Education. This early experience is subject to the following regulations:

- The contact hours may be observation, assistance, or direct participation.
- A minimum of twenty (20) contact hours must be with school age pupils in a diverse formal teaching/learning experience under the direction of a certified teacher. This experience will serve to acquaint the teacher candidate with the multiplicity of elements in today’s classroom environment.
- A minimum of twenty (20) contact hours must be with school age pupils in middle-level 4-8 pupils teaching/learning experience under the direction of a certified teacher. This experience will serve to acquaint the teacher candidate with the multiplicity of elements in today’s classroom environment.

**PRAXIS – Required for Certification**

- \*\* PPST Reading – Sophomore (48 credits)
- \*\* PPST Writing – Sophomore
- \*\* PPST Math – Sophomore
- Specialization – Senior Year (Before Student Teaching) – Middle-Level Mathematics

**If pursuing two or more certifications, you must take the specialization area for each certification area.**

\*\* Must be completed or in progress prior to Admission to Teacher Education.

**TOTAL CREDITS REQUIRED  
MIDDLE LEVEL MATH**

MATH	=	30 credits
ENGLISH	=	12 credits
SOCIAL STUDIES	=	12 credits
SCIENCE	=	12 credits
TOTAL	=	121 – 122 credits

Student’s Name: \_\_\_\_\_

Advisor’s Name: \_\_\_\_\_

Date: \_\_\_\_\_