

INDIANA UNIVERSITY OF PENNSYLVANIA

**Professional Studies in Education**

**Middle Level Education 4-8/ Mathematics Specialization 121 credits- Updated 3/2013**

Name \_\_\_\_\_ Banner ID \_\_\_\_\_

<b>LIBERAL STUDIES REQUIREMENTS (48 cr.)</b>	<b>GRADE</b>	<b>COURSE</b>
<u>Learning Skills: English Composition</u> (6)		
<b>College Writing</b> (Required for Step 1)	<b>3</b>	_____ <b>ENGL 101</b>
<b>Research Writing</b> (Pre-req: ENGL 101 and 29 cr.)	<b>3</b>	_____ <b>ENGL 202</b>
<u>Learning Skills: Mathematics</u> (6)		
<b>Elements of Mathematics I</b> (Required for Step 1)	<b>3</b>	_____ <b>MATH 151</b>
<b>Elements of Mathematics II</b> (LBST elec)	<b>3</b>	_____ <b>MATH 152</b>
<u>Humanities</u> (9)		
History:		
<b>Explorations in US History</b>	<b>3</b>	_____ <b>HIST 196</b>
Literature:		
<b>Humanities Literature</b> (Required for Step 1)	<b>3</b>	_____ <b>ENGL 121</b>
Philosophy or Religious Studies (one course):		
<b>PHIL 101, PHIL 120, PHIL 221, PHIL 222, PHIL 223</b> <b>RLST 100, RLST 110, RLST 250, or RLST 290</b>	<b>3</b>	_____ _____
<u>Fine Arts</u> (One Course) (3)		
<b>ARHI 101, MUHI 101, THTR 101, or DANC 102</b>	<b>3</b>	_____ _____
<u>Natural Science</u> (12) (At least 2 of 3 prior to PSII)		
<b>Physics</b>	<b>4</b>	_____ <b>SCI 105</b>
<b>General Biology I</b>	<b>4</b>	_____ <b>BIOL 103</b>
<u>Social Sciences</u> (three courses) (9)		
<b>Geography course (one)</b> <b>GEOG 101, 102 or GEOG 104</b> (GEOG 104 fulfills the Non-Western Cultures requirement)		
	<b>3</b>	_____ <b>GEOG ____</b>
<b>Political Science (one)</b> <b>PLSC 101 or PLSC 111</b> (PLSC 101 fulfills Non-Western Cultures requirement)		
	<b>3</b>	_____ <b>PLSC ____</b>
Principles or <b>Economics/Macro</b>	<b>3</b>	_____ <b>ECON ____</b>
<u>Health and Wellness</u> (3) (Choose one course or the MLSC option)		
<b>Health &amp; Wellness</b>	<b>3</b>	_____ <b>HPED 143</b>
<b>Nutrition &amp; Wellness</b>	<b>3</b>	_____ <b>FDNT 143</b>
<b>Healthy People</b>	<b>3</b>	_____ <b>NURS 143</b>
<b>OR</b>		
<b>One year of Military Science (2 semesters: 4 cr. total)</b>	<b>4</b>	_____ <b>MLSC ____</b> _____ <b>MLSC ____</b>

**Non-Western Cultures**

(Choose one course from the **approved list**, if this requirement has not been met by another Liberal Studies course).

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**PROFESSIONAL EDUCATION REQUIREMENTS (21 cr.)**

<b>Pre-Student Teaching I (PSI)</b>	<b>1</b>	_____	<b>EDUC 242</b>
<b>Pre-Student Teaching II (PSII)</b>	<b>1</b>	_____	<b>EDUC 342</b>
<b>Educational Psychology of Learning and Assessment (Required for Step 1)</b>	<b>3</b>	_____	<b>EDSP 102</b>
<b>Digital Instructional Technology (Required for Step 1)</b>	<b>3</b>	_____	<b>COMM 103</b>
<b>School Law (must be Step 1)</b>	<b>1</b>	_____	<b>EDUC 442</b>
<b>Professional Seminar</b>	<b>2</b>	_____	<b>EDUC 440</b>
<b>Student Teaching (2 placements)</b>			
• <b>Placement in grades 4-6 (non-mathematics setting)</b>	<b>5</b>	_____	<b>EDUC 421</b>
• <b>Placement in grades 6-8 (mathematics setting)</b>	<b>5</b>	_____	<b>EDUC 441</b>

**PROFESSIONAL CORE FOR MIDDLE LEVEL (32 credits)**

<b>Instructional Theory and Planning for Instruction (PSI)</b>	<b>3</b>	_____	<b>MIDL 310</b>
<b>Classroom Management and Adolescent Development (PSII)</b>	<b>3</b>	_____	<b>MIDL 315</b>
<b>Assessment of Student Learning: Design and Interpretation of Educational Measure (after PSI)</b>	<b>3</b>	_____	<b>EDSP 477</b>
<b>Literature for the Middle Grades (PSI)</b>	<b>3</b>	_____	<b>MIDL 221</b>
<b>Reading Instruction and Assessment in Grades 4-8 (PSI)</b>	<b>3</b>	_____	<b>MIDL 222</b>
<b>Teaching Methods of Language Arts Grades 4-8 (PSII)</b>	<b>3</b>	_____	<b>MIDL 425</b>
<b>Science Instruction and Assessment in Grades 4-8 (PSII)</b>	<b>3</b>	_____	<b>MIDL 312</b>
<b>Social Studies Instruction and Assessment in Grades 4-8 (PSII)</b>	<b>3</b>	_____	<b>MIDL 311</b>
<b>Multicultural/Multiethnic Education</b>	<b>2</b>	_____	<b>EDUC 499</b>
<b>Education of Students with Disabilities in Inclusive Secondary Settings (after PSI)</b>	<b>2</b>	_____	<b>EDEX 301</b>
<b>The Dynamic Earth</b>	<b>4</b>	_____	<b>GEOS 101/102</b>

**MIDDLE LEVEL MATHEMATICS SPECIALIZATION (30 credits)**

Introductory Courses: (12 cr. total- MATH 151/152 from Liberal Studies included in 12)

\*Pre-req. Math 151/152

<b>Elements of Algebra for Middle Level Teachers</b>	<b>3</b>	_____	<b>MATH 153</b>
<b>Probability and Statistics for Elementary/Middle Teachers</b>	<b>3</b>	_____	<b>MATH 317</b>
<b>Advanced Credits:</b> (18 advanced credits)			
<b>Basic Concepts of Algebra</b>	<b>3</b>	_____	<b>MATH 471</b>
<b>Patterns and Functions for Elementary /Middle Level Teachers</b>	<b>3</b>	_____	<b>MATH 420</b>
<b>Geometry for Elementary/Middle Level Teachers</b>	<b>3</b>	_____	<b>MATH 456</b>
<b>Logic and Logical Games for Elementary/Middle Level Teachers</b>	<b>3</b>	_____	<b>MATH 458</b>
<b>Methods of Teaching Mathematics at the Middle Level (Pre-req. MIDL 315)</b>	<b>3</b>	_____	<b>MATH 413</b>
<b>Choice of ONE:</b>			
<b>MATH 457: Number Theory for Elementary /Middle Level Teachers <i>or</i></b>	<b>3</b>	_____	<b>MATH ____</b>
<b>MATH 461: Discrete Mathematics for Elementary/Middle</b>			
<b><i>or</i> MATH 459: Technology in Elementary/Middle Level</b>			