<u>Curriculum Proposal Cover Sheet</u> – form is available on-line as an interactive PDF

LSC Use Only Proposal No:	UWUCC Use Only Proposal No: 12-6/a.
LSC Action-Date:	UWUCC Action-Date: AP-11/27/12 Senate Action Date: App-1/29/13

Curriculum Proposal Cov	er Sheet - University-Wide Undergr	aduate Curriculum Committee	
Contact Person(s) John D Baker		Email Address	
Proposing Department/Unit		jdbaker@iup.edu Phone	
Mathematics Dept.		724-357-3795	
Check all appropriate lines and complete all information. Use a se	eparate cover sheet for each course proposal a	nd/or program proposal.	
Course Proposals (check all that apply)			
New Course	Course Prefix Change	Course Deletion	
Course Revision	Course Number and/or Title Change	Catalog Description	Change
Current course prefix, number and full title:			
Proposed course prefix, number and full title, if cha	anging:		
2. Liberal Studies Course Designations, as app	ropriate		
This course is also proposed as a Liberal S	tudies Course (please mark the appro	priate categories below)	
Learning Skills Knowledge Area	Global and Multicultural Aware	eness Writing Intensive (inc	clude W cover sheet)
Liberal Studies Elective (please mark the d	esignation(s) that applies – must mee	t at least one)	
Global Citizenship	Information Literacy	Oral Communication	
Quantitative Reasoning	Scientific Literacy	Technological Literacy	
3. Other Designations, as appropriate			
Honors College Course Oth	ner: (e.g. Women's Studies, Pan Africa	an)	
4. Program Proposals			
Catalog Description Change Pro	ogram Revision Program	Title Change	New Track
New Degree Program X N	ew Minor Program Liberal Si	tudies Requirement Changes	Other
Current program name:			
Proposed program name, if changing: Minor	in Elementary v M	liddle Level Mathem	atics
5. Approvals	Sig	gnature	Date
Department Curriculum Committee Chair(s)	Edel Reilly _		9/20/12
Department Chairperson(s)	Dec	>	9/20/12
College Curriculum Committee Chair	Anne Kendo 1		9/24/12
College Dean	Deare &	Y	9/24/12
Director of Liberal Studies (as needed)	(,,,,,
Director of Honors College (as needed)	0.		
Provost (as needed)	Deened W. plema	n II	1/10/30/12
Additional signature (with title) as appropriate	Felly [TECC	1 & Navli 16/2	15/11/10/22/12
UWUCC Co-Chairs	Gail Sec	huist /	12/3/12
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			OCT 29 2012
ASSOCIATE PROVOST	OFFICE	ral Studies	Liberal Studie

Minor – Elementary and Middle Level Mathematics			18
Required Courses:		12cr	
MATH 151	Elements of Mathematics I		
MATH 152	Elements of Mathematics II		
MATH 456	Geometry for Elementary/Middle-Level Teachers		
MATH 471	Algebra for Elementary/Middle-Level Teachers		
Controlled Electives:		6cr	
MATH 153, 317, 420, 457, 458, 459, 461(1)			

(1) Other MATH content courses with the approval of the minor advisor.

Minor in Elementary and Middle Level Mathematics

The minor consists of 18 credits in elementary and middle level mathematics education. The minor may offer additional preparation for the teaching of elementary and middle mathematics. This minor does not lead to certification and is not open to students majoring in the Middle-Level Education 4-8/Mathematics Specialization.

1. Rationale/Justification: With recent changes to state certification requirements, the mathematics concentration is no longer an option for elementary education majors. The old programs have been replaced at IUP by the ECSP major (Early Childhood Education/Special Education) and the MIDL major (with a Math track for Grades 4-8).

The new state guidelines eliminate the elementary education graduates who emphasized mathematics in their coursework, and are highly desirable applicants for teaching positions in many school districts. The Minor in Elementary and Middle School Mathematics allows those who have the time and inclination to take extra coursework in math that is specifically designed to give them content and pedagogy in teaching math for the elementary and middle school grade levels. This minor does not lead to certification nor is it open to students in the Middle Level Education Math Specialization.

2. Summary of Courses: same as #1 above

Required Courses: 12cr MATH 151, MATH 152, MATH 471, MATH 456

Controlled Electives 6cr

MATH 317, MATH 420, MATH 457, MATH 458, MATH 459, MATH 461, Courses for math majors and minors including MATH 105 and above

Credit Requirements: 18 credits

Sequencing: MATH 151 and MATH 152 are the prerequisite courses for the other math courses in the minor. The other coursework can be taken in any order.

Restrictions: None

3. Recommended Course Sequence:

Freshman Year – MATH 151 (fall), MATH 152 (spring) Sophomore Year – MATH 456 (fall), elective course (spring) Junior Year – MATH 471 (fall), elective course (spring)

Part III – Implementation

- 1. Faculty: No additional faculty will be needed. Courses for this minor are already offered on a regular basis for the MIDL Math major. The additional students can easily be accommodated into sections that are offered.
- 2. Resource: No additional resources are needed.
- 3. We expect an increase in number of students up to 5 ECSP majors. This number of students can be easily absorbed into the current offerings of classes
- 4. Intended Implementation Date: Fall 2013

Part IV - Periodic Assessment

The Mathematics Department will evaluate this program as part of its assessment plan. We will also be monitoring student perceptions and attitudes about mathematics. All this will be accomplished with the usual course grades and current surveys.

Part V – Course Proposals

All courses for this minor exist and are regularly offered.

Part VI – Letters of Support or Acknowledgement

Although other majors are welcome to fulfill the requirements of this new minor, students majoring in ECSP are the primary focus. A letter of support has been included from Dr. Sue Rieg, Chairperson of Professional Studies in Education and Dr. Janice Baker, Chairperson of Special Education and Clinical Services.