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**Indicates a required field*

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Proposing Department/Unit*	Mathematics	Contact Phone*	7-2608

Course Level* undergraduate-level

Course Revisions

(Check all that apply; fill out categories below as specified; i.e. if only changing a course title, only complete Category A)

Category A:

Category B:

liberal-studies

*** Teacher Education: Please complete the Teacher Education section of this form (below)**

*** Liberal Studies: Please complete the Liberal Studies section of this form (below)**

*** Distance Education: Please complete the Distance Education section of this form (below)**

Rationale for Proposed Changes (All Categories)

2. Number patterns
3. Solving mathematical puzzles

B. Sets

1. Basic concepts
2. Sets of numbers
3. Venn diagrams
4. Operations on sets
5. Infinity

C. Logic

1. Statements and quantifiers
2. Truth tables
3. Analyzing arguments

D. Geometry

1. Basic terms and concepts
2. Angles
3. Polygons
4. Perimeter, area
5. Polyhedrons, volume, surface area
6. Transformations
7. Non-Euclidean geometry
8. Topology

E. Numeration

1. Roman numerals
2. Binary numbers
3. Other number systems

F. Number Theory

1. Divisibility rules
2. Factors
3. Prime numbers
4. Prime factorization
5. Goldbach's Conjecture
6. Fermat's Last Theorem
7. Diophantine equations

(N) Brief Course Outline

(Give sufficient detail to communicate the content to faculty across campus.

It is not necessary to include specific

As outlined by the federal definition of a "credit hour", the following should be a consideration

regarding student work - For every one hour of classroom or direct faculty instruction,

there should be a minimum of two hours of out of class student work.

readings, calendar or assignments)

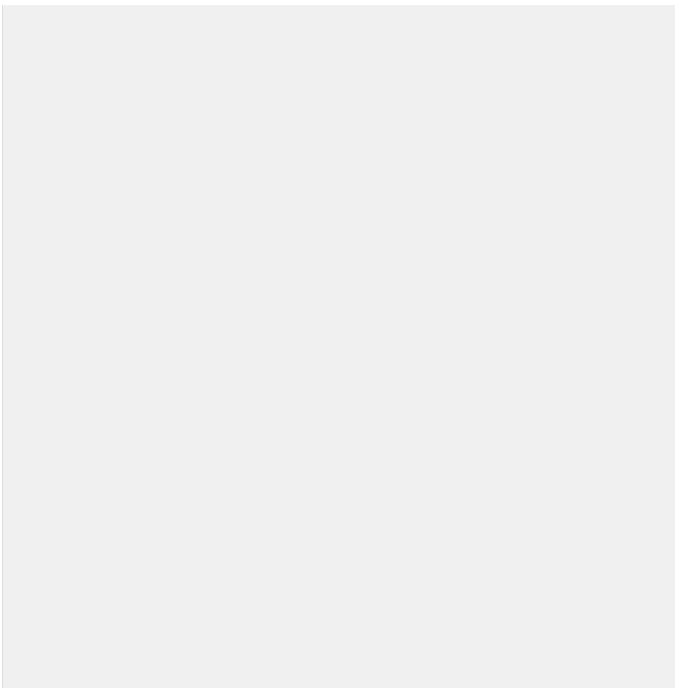
A. Problem Solving Strategies

1. Inductive/Deductive reasoning
2. Number patterns
3. Solving mathematical puzzles

B. Sets

1. Basic concepts
2. Sets of numbers
3. Venn diagrams
4. Operations on sets

<p>If Completing this Section, Check the Box to the Right:</p>	<p>NOTE: you must check this box if the Course has previously been approved for Distance Education</p>
<p>Course Prefix/Number</p>	
<p>Course Title</p>	
<p>Type of Proposal</p>	<p>See CBA, Art. 42.D.1 for Definition</p>
<p>Brief Course Outline</p>	<p>Give an outline of sufficient detail to communicate the course content to faculty across campus. It is not necessary to include specific readings, calendar or assignments</p> <p>As outlined by the federal definition of a "credit hour", the following should be a consideration regarding student work - For every one hour of classroom or direct faculty instruction, there should be a minimum of two hours of out of class student work.</p>
<p>Rationale for Proposal m 47.63 -2.85 47.63 -3.6 3 341.02 8.38 48 ",</p>	



<ul style="list-style-type: none">• civic engagement	
<ul style="list-style-type: none">• an understanding of the ethical and behavioral consequences of decisions and actions on themselves, on society, and on the physical world	
<ul style="list-style-type: none">• an understanding of themselves and a respect for the identities, histories and cultures of others	

How will each outcome be measured

