



# Minor in Foundational Mathematics

## Advisement Form 2010-2011

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

This minor meets the needs of non-mathematics majors intending to enter a middle school mathematics teaching credential program, as well as many Liberal Studies students who would like to teach upper level elementary mathematics.

The Foundational Math minor requires 34-36 units

Lower Division Requirements (15-16 units)	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE and Comments
<i>Choose <u>one</u> of the following:</i>							
MATH 101 College Algebra	3						Prereq: Passing score on the ELM exam
MATH 105 Pre-Calculus	4						Prereq: Passing score on the ELM exam; GE: B3
MATH 150 Calculus I	4						Prereq: Passing score on the Calculus Placement Exam or MATH 105; GE: B3
<i>Choose <u>one</u> of the following:</i>							
MATH 201 Elementary Statistics  (or) MATH/PSY 202 Biostatistics	3						Prereq (201): Passing score on the ELM exam or MATH 105 or MATH 101; GE: B3 Prereq (202): Passing score on the ELM or MATH 105 or equivalent; GE: B3
<i>Additional required courses:</i>							
MATH 208 Modern Mathematics for Elementary Teaching I - Numbers and Problem Solving	3						Prereq: MATH 101; GE: B3
MATH 230 Logic and Mathematical Reasoning	3						GE: A3, B3
MATH 240 Linear Algebra	3						Prereq: MATH 151
<b>Upper Division Requirements (16 units)</b>							
MATH 308 Modern Mathematics for Elementary School Teaching II-Geometry, Probability and Statistics	3						Prereq: MATH 208 or consent of instructor
MATH 318 Mathematics for Secondary School Teachers	3						Prereq: MATH 150
MATH 330 Mathematics and Fine Arts	3						Prereq: Passing score on the ELM exam or MATH 95; GE: B3, UDIGE
MATH 331 History of Mathematics	3						GE: B3, D, UDIGE
MATH 499 Senior Colloquium	1						Prereq: Senior standing; Repeatable
<i>Select <u>one</u> of the following for a total of 3 units:</i>							
MATH 492 Internship	1-3						Prereq: Upper division standing & program approval of written proposal; Repeatable
LS 499 Capstone Project	1-3						Prereq: Senior standing; Repeatable

<b>Electives (3-4 units)</b> Choose <u>one</u> of the following							
MATH 150 Calculus I	4						Prereq: Passing score on Calculus Placement Exam or MATH 105; GE: B3 (cannot be used for elective if chosen above)
MATH 151 Calculus II	4						Prereq: MATH 150
MATH 300 Discrete Mathematics	3						Prereq: MATH 230
MATH 393 Abstract Algebra I	3						Prereq: MATH 240 or consent of instructor
MATH 482 Number Theory and Cryptography	3						Prereq: MATH 300
Other upper-division math course	3-4						

Advisor _____	Date Completed _____
Advisor Comments _____	
_____	
_____	
_____	