ACADEMIC ALERT #2009-10

DATE: **June, 2009**

DECISION: **College of Arts and Sciences (CAS); National College of Education (NCE)**

Changes in Mathematics/Quantitative Studies Courses for the B.A. Elementary Education Math Minor leading to Middle School Endorsement

Rationale
The Mathematics Department has made the following changes in the B.A. Elementary Education Math Minor leading to Middle School Endorsement:

- Move LAM220 College Algebra from under the Modern Algebra Area to Electives
- Move LAM214 Finite Math from under Electives to the Modern Algebra Area

The Illinois State Board of Education (ISBE) has removed College Algebra courses from its lists of acceptable courses in the Modern Algebra Area. At the same time, they have added Finite Mathematics courses to that same area.

Senate Academic Planning Committee Approval: May 21, 2009

Program Authorizations: The B.A. Elementary Education is authorized to be offered in the following Illinois regions: Chicago; North Suburban; West Suburban; South Metropolitan; Fox Valley; Western; Central and Prairie.
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IMPLEMENTATION DATE: Effective Summer Term, 2009

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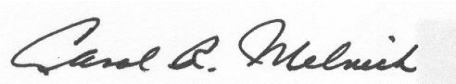

Carol R. Melnick, Ph.D.
Vice Provost

Advising Guide for B.A. Elementary Education Major – Math Concentration
REVISED Effective Summer Term 2009

General Education Requirements:
LAM112 Math Content for Teachers I 5 QH
LAM213 Math Content for Teachers II 5 QH

Standard Teaching Concentration in Math 30 QH (six courses)
Five courses must be selected from four of the following seven areas:

(The sixth course may be chosen from any of the seven areas or from the math electives. Three upper-level math courses must be taken at NLU. All transfer substitutions for Math concentration courses must be approved by the Mathematics Department.)

Area I: Math Content for Elementary Teachers
LAM301 Mathematics Content for Teachers: Problem Solving
*****LAM495 Mathematics Special Topics

Area II: Calculus
LAM311 Calculus I
LAM312 Calculus II
LAM313 Calculus III

Area III: Modern Algebra / Number Theory
LAM214 Finite Mathematics - NEW
LAM309 Theory of Numbers
LAM320 Discrete Mathematics
LAM350 Modern Algebra
*****LAM495 Mathematics Special Topics

Area IV: Geometry
LAM307 Investigatory Geometry and Measurement
LAM405 Geometry
*****LAM495 Mathematics Special Topics

Area V: Computer Science
LAM303 Computer Programming I
LAM305 Computer Programming II

Area VI: Probability & Statistics
LAM308 Exploratory Probability & Statistics
LAM403 Mathematical Probability & Statistics

Area VII: History of Math
LAM315 History of Mathematics: A Problem Solving Approach

Math Electives:
LAM130 Mathematics in an Information Age
LAM220 College Algebra -NEW
LAM310 Precalculus
LAM325 Linear Programming
LAM330 Matrix Algebra
LAM410 Linear Algebra
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The following courses do NOT count toward the Math Concentrations, major, or minor:
LAM100A, 100B, 106, 107, 108, 109, 110, 113, 115, 216, 225

***Advisor – please note:** LAM495 courses vary by term/year - the advisor must contact the Math Department faculty to have a specific course moved into the correct area for the student. There is no limit to the number of Special Topics courses used for the teaching concentrations, as long as the courses are approved by Math Department faculty to be used in a specific area and all other requirements are met.

Implementation
Changes need to be entered into CAPP and Banner.

The Bachelor of Arts Elementary Education Student Handbook and the advising guide need to be updated (Part XI. Standard Teaching Concentration pp. 20-30).

The Office of Admission and Records (OAR), the Undergraduate Academic Advising Center (UAAC), and staff in Enrollment, Recruitment and Marketing need to be knowledgeable about these changes.

The revised catalog copy will be written and submitted to the Vice Provost and Assistant Registrar for Schedules and Catalogs to ensure that catalog copy is prepared and ready for the next catalog, 2010-2011.