September 11, 2013

MEMORANDUM

TO: Donna Wiseman
   Dean, College of Education

FROM: Elizabeth Beise
   Associate Provost for Academic Planning and Programs

SUBJECT: Proposal to Modify the Bachelor of Science in Secondary Education- Math Concentration (PCC Log no. 13004)

At its meeting on September 6, 2013, the Senate Committee on Programs, Curricula, and Courses approved your proposal to modify the curriculum of the Bachelor of Science in Secondary Education- Math Concentration. A copy of the approved proposal is attached.

The change is effective Spring 2014. Please ensure that the change is fully described in the Undergraduate Catalog and in all relevant descriptive materials, including the undergraduate program’s four-year plan (contact Lisa Kiely at lkiely@umd.edu for more information).

MDC/

Enclosure

cc: Marilee Lindemann, Chair, Senate PCC Committee
    Sarah Bauder, Office of Student Financial Aid
    Reka Montfort, University Senate
    Erin Howard, Division of Information Technology
    Pam Phillips, Institutional Research, Planning & Assessment
    Anne Turkos, University Archives
    Linda Yokoi, Office of the Registrar
    Robert Gaines, Undergraduate Studies
    Maggie McLaughlin, College of Education
    Francine Hultgren, Department of Teaching, Learning, Policy and Leadership
Summary of Proposed Action:
Modify the math area of specialization within the Bachelor of Science degree in Secondary Education to add MATH 274, History of Mathematics, as a program requirement. This curriculum change is necessary in order to meet the standards of the National Council of Teachers of Mathematics (NCTM). National recognition from NCTM is a requirement for accreditation.

APPROVAL SIGNATURES - Please print name, sign, and date. Use additional lines for multi-unit programs.

1. Department Committee Chair  
   **Linda Valli**  
   **May 15, 2013**

2. Department Chair  
   **Francine Hultgren**  
   **5-15-13**

3. College/School PCC Chair  
   **Donna Sullivan**  
   **5-16-13**

4. Dean  
   **Dickilow-Gill**  
   **5-16-13**

5. Dean of the Graduate School (if required)  

6. Chair, Senate PCC  
   **Marianne Friel**  
   **9/6/13**

7. University Senate Chair (if required)  

8. Senior Vice President and Provost  
   **Elpahth Jaffe**  
   **9/11/2013**
**Summary of Proposed Action:**
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**Rationale for Proposed Action:**
In preparation for our recent accreditation visit from the National Council for Accreditation of Teacher Education (NCATE), the math faculty submitted a program recognition report to NCTM. The program report submission indicated that students majoring in mathematics education were being advised to take MATH 274 in order to address elements of the NCTM standards related to the history of mathematics. The report stated, *MATH 274 is already listed on the University course schedule, and our candidates are being advised to take it. The next step will be for the program to make MATH 274 an official part of the teacher preparation curriculum.*

NCTM granted the program national recognition with conditions. The NCTM National Recognition Report stated: *Although NCTM indicators 9.10, 10.6, 11.8, 12.5, 13.4, 14.8, and 15.4 are addressed with the introduction of a History of Mathematics course, the indicator is still not met since the course is not a requirement for candidates enrolled in the program.* To address this concern, the Department of Teaching and Learning, Policy and Leadership (TLPL) is submitting a proposal to require MATH 274 (History of Mathematics) for mathematics education majors. The Mathematics Department offers this course, and a number of mathematics education majors already take this class. This course will fill an existing elective slot within the program.

Lawrence Clark (Assistant Professor, Mathematics Education, TLPL) and Kathy Angeletti (Assistant Dean/Executive Director of Teacher Education, EDUC) met with representatives from the Mathematics Department (Denny Gulick – Professor & Associate Chair for Course Staffing, and Doron Levy – Professor & Associate Chair for Undergraduate Studies) to discuss the proposal to add MATH 274 to the program. Both Dr. Gulick and Dr. Levy indicated their support for this curriculum revision. A letter of support from the Mathematics Department verifying its support for the proposal to require MATH 274 for the Bachelor of Science in Secondary Education – Mathematics Area of Specialization is attached to this proposal. The letter confirms that the Mathematics Department will make seats available for undergraduate secondary education math majors to take this course.
Kathy Angeletti, Ph.D.
Assistant Dean & Executive Director of Teacher Education
3119 Benjamin Building
University of Maryland
College Park, MD 20742

Dear Dr. Angeletti,

The Department of Mathematics supports the proposal to add MATH 274, History of Mathematics, to the program requirements for the mathematics area of specialization within the Bachelor of Science degree in Secondary Education. I understand that this curriculum change is necessary in order to meet the standards of the National Council of Teachers of Mathematics (NCTM), which is required for national recognition/accreditation.

MATH 274 is listed on the University course schedule, and it is my understanding that many secondary education majors already enroll in this class. The Department supports the College’s plan to officially add MATH 274 to the program requirements and will make seats available for undergraduate secondary education math majors to take this course.

Sincerely,

Dr. Doron Levy
Professor and Associate Chair for Undergraduate Studies
Department of Mathematics