April 11, 2016

To:    Dean Van Galen, Chancellor
       116 North Hall
       University of Wisconsin-River Falls

From:  James Graham, Chair
       Faculty Senate
       University of Wisconsin-River Falls

Re:    UWRF Faculty Senate Motion 2015-16/67

The following motion was approved unanimously by the Faculty Senate on April 6, 2016:

A motion from the Academic Programs and Policies Committee (Mialisa Moline, Chair) to approve changes to the MSE – Mathematics Secondary Education program.

✓ Approved

☐ Disapproved

Dean Van Galen, Chancellor

4/13/16

Date
TRANSMITTAL for GRADUATE PROGRAMS: Changes or Proposals

I. INFORMATION:

A. Check all that apply: Existing Program ✓ New Program ___
Name Change ___ Credits Change ___ Change in Curriculum ✓

B. Program Title: MSE - Mathematics Secondary Education

C. Department(s) (Originating): Mathematics
D. College(s) (Originating): Arts & Science

E. Programs / Departments Consulted (Requires letters of comment from all departments or programs substantially affected. Signatures of dept. chairs & deans affected by this proposal are required on the attached addendum.):

1) TED  2)  3)  4)

F. Catalog year of Implementation: Semester Spring Year 2016

G. Have all courses in this program been approved? Yes ___ No ✓

H. Attach Request Narrative
Include in narrative on attached pages clarification concerning which courses have not been approved, and a rationale for the requested changes or creation of program. If requesting a program change also include a listing of course array for both the current and proposed program?

II. UNIT APPROVALS: Requires signatures of all Department Chairs and Deans whose programs will be substantially affected by the changes or proposal. Signature lines for the affected Departments and Colleges (noted in “E” above), are on the addendum to this form. These signatures should be obtained prior to review by all other shared governance levels.

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<th>Department Curriculum Committee Chair (optional)</th>
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*NOTE: The master copy of this transmittal & accompanying documents must be filed in the Provost’s office upon final approval. The Provost’s office will notify all appropriate administrative offices [Registrar, Office of Graduate Studies, Dean(s), Department Chair(s)] of approvals & necessary actions to implement changes.

Revised December 2012
# Signatures of Additional Department & Colleges Affected

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Mathematics MSE Graduate Program Change Narrative

We have received feedback from students in our master's program that they would like to have the offering of a course that provides them a chance to learn about emerging technologies and how to incorporate them into their mathematics teaching. In response to this need, we have created the course Math 705: Integrating Emerging Technologies in the Teaching and Learning of Mathematics. Therefore we are proposing to change the requirement in our program of having a student take TED 740, 750, or 755 to taking Math 705.

Math 705 was approved by the Graduate Studies Curriculum Committee in their Nov. 5, 2015 meeting. It is expected to be approved in the University Curriculum Committee by the end of December 2015.

Current Program

MATH 711 Geometry for Educators, 4 credits
MATH 726 Statistics for Educators, 4 credits
MATH 736 Discrete Math for Educators, 4 credits
MATH 751 Modern Algebra for Educators, 4 credits
MATH 756 Probability for Educators, 4 credits
MATH 766 Calculus for Educators, 4 credits

Required Education Courses, 6-7 graduate credits:

TED 760 - Methods in Research, 3 credits

Plus one of the following:

TED 740 History/Philosophy/Multicultural Foundations of Education in America, 4 credits
TED 750 Advanced Educational Psychology, 3 credits
TED 755 Social Issues in Education, 3 credits

Proposed Program

MATH 711 Geometry for Educators, 4 credits
MATH 726 Statistics for Educators, 4 credits
MATH 736 Discrete Math for Educators, 4 credits
MATH 751 Modern Algebra for Educators, 4 credits
MATH 756 Probability for Educators, 4 credits
MATH 766 Calculus for Educators, 4 credits

MATH 705 Integrating Emerging Technologies in the Teaching and Learning of Mathematics, 3 credits
TED 760 - Methods in Research, 3 credits
Erick Hofacker

From: Geoffrey Scheurman
Sent: Friday, October 9, 2015 10:09 AM
To: Erick Hofacker
Subject: Re: Math 705 - Technology Course

Erick,

I don't see any immediate issues with creating your own course and substituting it for TED740 or TED750 in your Masters design.

The only advantage I can see in possibly holding off is that we are re-designing our MSE as well, and there might be some possibility for collaboration between what we come up with and what you came up with, or what you need. In other words, not re-inventing the wheel twice.

On the other hand, our MSE Ed students are certainly not all from a Math background, and if a few were, perhaps we could consider subbing YOUR course for OURS for those who came in with a major or strong minor.

I don't think there is anyone else you need to speak with. If this affects certification in any way, then Mike Martin will need to be in the loop. But since these are already licensed teachers, then I presume this would only apply if you were getting candidates who are adding a license.

Geoff

Geoffrey Scheurman
Professor and Chair
Department of Teacher Education
244 Wyman Education Building
University of Wisconsin - River Falls
River Falls, WI 54022

715.425.3520 (office) 715.425.3230 (department) geoffrey.scheurman@uwrf.edu

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From: Erick Hofacker
Sent: Monday, September 28, 2015 3:41 PM
To: Geoffrey Scheurman
Subject: Math 705 - Technology Course

Geoff

We just voted on the Math 705 course in my department. It will be moving through course committees. I will be submitting a program change to use Math 705 to replace TED 740 or 750 in our graduate program. Do you foresee any issues with this? Is there anyone I need to discuss this with in the college of ed besides you?

When you have a chance, let me know how I should proceed with this.
Math Department Meeting Minutes
Monday, September 28, 2015

Present: A Chatterjee, K Chavey, R Coffman, I Ghenciu, K Tomlinson, L Langford, E Hofacker, A Tupan

Meeting called to order at 3:15.
1) Motion to approve minutes from 9/21/15 meeting (Langford, Ghenciu). Motion passes.
2) Motion to approve MATH 705: Integrating Emerging Technologies in the Teaching and Learning of Mathematics (Langford, Chatterjee). Discussion: Tupan raised a question about the distinction between MATH 305 and MATH 705. Hofacker explained that MATH 705 will have a deeper focus than MATH 305 because the students will be in-service rather than pre-service teachers. Langford clarified that in-service teachers in MATH 705, who have developed and used lesson plans in real classrooms, will make deeper sense and application of mathematics technologies than pre-service teachers in MATH 305. Chavey clarified that we have a similar situation with our other graduate courses such as MATH 711 vs. MATH 411 and MATH 766 vs. MATH 166. The issue of the follow-up program change for the MSE program from the option of TED 740 or 750 or 755 to MATH 705 was discussed. The issue of coordinating the program change with the Teacher Ed Dept discussed. Motion passes.
3) Chair’s Report

- Replacement proposal for Liberal Arts Requirement that was suspended in 2014-15.
- Request for hiring proposals
- Major Fair, Oct 20 6-8PM
- Career Fair, Oct 14
- Prospective Student Saturdays, Oct 3, Oct 17, Nov 7 11:00-12:00
- Majors & Minors Email List
- Bruce Williamson Scholarship update
- Putnam Competition, December 5. Does anyone want to take this over?

Meeting adjourned at 4:00. Next meeting: Monday, October 5, 2015 at 3:15
Wes,

I no longer have access to calendar. Could you have someone in your office post the following meetings of the GSCC

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Logan J. Kelly, Ph.D.
Associate Professor, Department of Economics, University of Wisconsin-River Falls
Director, UWRF Center for Economic Research, http://www.uwrf.edu/cer

Phone: 715 425 4993
Click here to schedule a meeting.
From: Geoffrey Scheurman
Sent: Thursday, October 15, 2015 8:25 AM
To: Erick Hofacker <erick.b.hofacker@uwrf.edu>
Cc: Kathy Tomlinson <kathy.tomlinson@uwrf.edu>
Subject: Re: MSE Math Grad Change

Professors Hofacker and Tomlinson:

The Teacher Education Department supports a change in the MSE-Math Program replacing the choice of TED 740 or TED 750 or TED 755 to the requirement of MATH 705.

As we are currently undergoing a revision of our MSE program in Elementary Education, we hope you will consider our new course offerings as possibilities for your candidates and as possible substitutes for some of your requirements. We will keep you informed and be seeking your consultation as we move forward.

Sincerely,

Geoff Scheurman

Geoffrey Scheurman
Professor and Chair
Department of Teacher Education
244 Wyman Education Building
University of Wisconsin - River Falls
River Falls, WI 54022

715.425.3520 (office) 715.425.3230 (department)
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