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.

<table>
<thead>
<tr>
<th>Department / Program Chair</th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>Department Curriculum Committee Chair (optional)</td>
<td>Robert L. Coffman</td>
<td>11-18-15</td>
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<tr>
<td>Department/Program Chair</td>
<td>Signature</td>
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<td>College Curriculum Committee Chair</td>
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<td>Dean of College</td>
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<tr>
<td>Graduate Curriculum Cmtt. Chair</td>
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<td>University Curriculum Cmtt. Chair</td>
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<td>Academic Policy &amp; Program Cmtt. Chair</td>
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<tr>
<td>Faculty Senate Chair</td>
<td>Signature</td>
<td>Date</td>
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<tr>
<td>Provost / Vice Chancellor</td>
<td>Signature</td>
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Chancellor

Signature Date

*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
TRANSMITTAL for GRADUATE PROGRAMS: Changes or Proposals - Addendum

<table>
<thead>
<tr>
<th>Signatures of Additional Department &amp; Colleges Affected</th>
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<tr>
<td>Department Chair</td>
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<tr>
<td>Dean of College</td>
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Department Chair
Dean of College

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Department Chair
Dean of College

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Department Chair
Dean of College

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Department Chair
Dean of College

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Department Chair
Dean of College

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Revised December 2012
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
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
Logan Kelly

To: Wesley Chapin
Subject: Post GCCC meetings

Wes,

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

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<thead>
<tr>
<th>Date</th>
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<th>End Time</th>
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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)  
geoffrey.scheurman@uwrf.edu