

REQUEST FOR CHANGE IN MASTERS DEGREE PROGRAM

1. GENERAL INFORMATION

College:	Education	Department:	STEM Education		
Current Major Name:	STEM Education	Proposed Major Name:			
Current Degree Title:	Master of Science in Education	Proposed Degree Title:			
Formal Option(s):		Proposed Formal Option(s):			
Specialty Fields w/in Formal Option:		Proposed Specialty Fields w/in Formal Options:			
Date of Contact with Associate Provost for Academic Administration ¹ :	Fall 2009				
Bulletin (yr & pgs):		CIP Code ¹ :	13.1399	Today's Date:	02.22.2011
Accrediting Agency (if applicable):	National Council for Accreditation of Teacher Education and Kentucky Education Professional Standards Board				
Requested Effective Date:	<input checked="" type="checkbox"/> Semester following approval.	OR	<input type="checkbox"/> Specific Date ² :		
Dept. Contact Person:	Margaret Schroeder	Phone:	257.3073	Email:	m.mohr@uky.edu

2. CHANGE(S) IN PROGRAM REQUIREMENTS

		<u>Current</u>	<u>Proposed</u>
1.	Number of transfer credits allowed (Maximum is Graduate School limit of 9 hours or 25% of course work)	9	
2.	Residence requirement (if applicable)		
3.	Language(s) and/or skill(s) required	N/A	
4.	Termination criteria		
5.	Plan A Degree Plan requirements ³ (thesis)		<i>Thesis action research/teacher leadership project required with oral defense of written work</i>
6.	Plan B Degree Plan requirements ³ (non-thesis)	Kentucky Teacher Standards Portfolio	<i>Not an option</i>
7.	Distribution of course levels required (At least one-half must be at 600+ level & two-thirds must be in organized courses.)	one-half 600+ level and two-thirds in organized courses	<i>one-half 600+ level and two-thirds in organized courses</i>
8.	Required courses (if applicable)	6 hours of EDC 732, 733, or EPE/EDP 522; 9 hours of	<i>3 hours of SEM 610; 9 hours of SEM 603, 604, 607, 613,</i>

¹ Prior to filling out this form, you MUST contact the Associate Provost for Academic Administration (APAA). If you do not know the CIP code, the APAA can provide you with that during the contact.

² Program changes are typically made effective for the semester following approval. No changes will be made effective until all approvals are received.

³ If there is only one plan for the degree, plans involving a thesis (or the equivalent in studio work, etc.) should be discussed under Plan A and those not involving a thesis should be discussed under Plan B.

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		EDC 603, 604, 607, 613, 701, 704, 706, 708, or 770; 12 hours of STEM content courses; 3 hours of EDL courses (Please see attached curriculum contract)	701, 704, 706, 708, or 770; 12 hours of STEM content courses; 6 hours of EDL courses (Please see attached curriculum contract)
9.	Required distribution of courses within program (if applicable)	6 hours in EDC Departmental Core; 9 hours in EDC Stem Education; 12 hours in STEM content area; 3 hours in EDL	12 hours of SEM STEM Education; 12 hours in STEM content area(s); 6 hours in EDL
10.	Final examination requirements	STEM Education Master's Examination	Oral defense of written thesis
11.	Explain whether the proposed changes to the program (as described in sections 1 to 10) involve courses offered by another department/program. <u>Routing Signature Log must include approval by faculty of additional department(s).</u>		
	The proposed changes to this Master's degree program does not change the requirements for content courses outside of the College of Education or the course offerings from the Department of Education Leadership.		
12.	List any other requirements not covered above?		
	N/A		
13.	Please explain the rationale for changes. If the rationale involves accreditation requirements, please include specific references to those requirements.		
	<p>16 KAR 5:010 Section 12 specifies that all Advanced Master's Degree Programs must be redesigned and approved prior to December 31, 2010. The redesigned Master's degree was approved last Spring 2010 at the University. Changes to the requirements of the Master's Degree Programs within the College of Education necessitated a change to the Master of Science in Education - STEM Education Program.</p> <p>The program changes proposed will allow for students of this program to practice 21st century skills and concepts that can then be integrated into their classrooms. It will also give them the background skills and knowledge needed to become a STEM Education teacher leader in their schools, districts, and the Commonwealth.</p>		

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Signature Routing Log

General Information:

Proposal Name: Master of Science in STEM Education

Proposal Contact Person Name: Margaret Schroeder Phone: 257.3073 Email: m.mohr@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
STEM Education		Jennifer Wilhelm / 257.1291 / jennifer.wilhelm@uky.edu	
		/ /	
		/ /	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁴
Undergraduate Council			
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

⁴ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.



**Department of Science, Technology, Engineering, and Mathematics (STEM) Education
Curriculum Contract – Master’s Verification**

Master’s Degree with Rank II Certification – STEM Education

STEM PLUS⁺ – Producing +eacher Leaders for rUral/Urban Schools

Please TYPE

Name				
Email				
Address				
	Street		City	State Zip
Phone				Semester of Admission to Master’s Program
	Home	Work	Cell/Other	

Professional Goals: Briefly describe the professional growth goals you hope to meet in pursuing the Rank II Certification and STEM Education Master’s Degree. Please attach a copy of your Professional Growth Plan.

Program Goals: In helping you develop your own professional goals, the STEM PLUS⁺ Master’s degree program will also focus on helping you:

1. Connect theory and practice through reflection, teaching, scholarship, and STEM educational action research.
2. Use student achievement data to design authentic, innovative, project-based learning experiences that consider students of diverse backgrounds and perspectives.
3. Explore uses of appropriate assessments and technological tools to enhance STEM teaching, learning, student achievement, and College and Career Readiness.
4. Develop communication skills through multiple forms of discourse and written, oral, and on-line narratives.
5. Explore and implement innovative and engaging curricula, especially around the Kentucky Core Academic Standards and College and Career Readiness, geared towards increasing student achievement.

Required STEM Education Core: SEM 610 required; choose 3 additional

(12 hours)

Course	Title	Term	Grade	Credits
SEM 603	Curriculum and Instruction in STEM Education			3
SEM 604	History of STEM Education			3
EDC 607	Instructional Design I			3
SEM 610	Teacher Leadership in STEM Education (required)			3
SEM 613	Effective Use of Technology for Modeling-Based Inquiry in STEM Education			3
SEM 670	Advanced Elementary Mathematics Methods			3
SEM 674	Advanced Studies in Teaching Elementary School Science			3
SEM 675	Mathematics Clinic			3
SEM 701	History of Mathematics Education			3
SEM 704	Designing Project-Enhanced Environments in STEM Education			3
SEM 706	Research in STEM Education			3
SEM 708	Engineering in STEM Education			3
SEM 770	Special Topics in STEM Education:			3

Specialization STEM Coursework: Choose 12 hours in STEM content area(s) outside the College of Education. See attached list for course suggestions. *(Recommended: 6 hours in your area of expertise and 6 hours outside of your area of expertise).* (12 hours)

Course	Title	Term	Grade	Credits
				3
				3
				3
				3
				3
				3

Elective Leadership Coursework: Choose from the following (6 hours)

Course	Title	Term	Grade	Credits
EDC/EPE/EDP 522	Educational Assessment			3
EDC 548	Instructional Technology Leadership			3
EDC 732	Curriculum Design for Learning and Leading			3
EDC 733	Leadership in Curriculum & Instruction: Strategies for Analytic Practice			3
EDL 600	Leadership for Learning-Centered Schools	Fall		3
EDL 601	Building a Professional Learning Community	Fall		1
EDL 602	Leadership Roles in Professional Learning Communities	Fall		1
EDL 603	Leadership for Student Learning	Fall		1
EDL 604	Leadership in Professional Learning Communities	Fall		3
EDL 605	Legal Rights and Responsibilities of Students	Spring		1
EDL 606	Legal Rights and Responsibilities for Teachers	Spring		1
EDL 607	Teacher Responsibilities in School-Based Decision Making	Spring		1
EDL 608	School Law and Governance for Teachers	Spring		3
EDL 609	Technology Leadership	Summer		1
EDL 610	Distributed Leadership in Schools	Summer		1
EDL 611	Current Issues for Education Leaders	Summer		1
EDL 612	Leadership for Technology and Innovation	Summer		3
EDL 613	Leadership in the Public Context of Education	Spring		1
EDL 614	Partnerships for Closing Achievement Gaps	Spring		1
EDL 615	Leadership for Response to Intervention in Inclusive Classrooms	Spring		1
EDL 616	Leadership for School as Inclusive Community	Spring		3
EDL 617	Teacher Leadership for Instructional Teams	Fall		1
EDL 618	Introduction to Leading Action Research for School Renewal	Fall		1
EDL 619	Evidence-Based Decision Making	Fall		1
EDL 661	School Technology Leadership			3
EDL 662	Digital Age Learning and School Technology Leadership			3
EDL 663	Professional Development for School Technology Leadership			3
EDL 664	School Technology Leadership for School Improvement			3
EDL 665	School Technology Leadership for Digital Citizenship			3
Total Credit Hours				

Minimum 30 credit hours required for graduation and Rank II certification

Continuous Assessment

Checkpoint	Date
Satisfactory Entry Review	
Satisfactory Mid-point Review	
Satisfactory Exit Portfolio/Review	

Master's Committee:

Member	Department
, Chair	

Student Signature

Date

Advisory Signature

Date