REQUEST FOR CHANGE IN MASTERS DEGREE PROGRAM

1. GENERAL INFORMATION

College:	Educati	on			Departr	nent:	STEM Education		
Current Major	Name:	STEM Educ	cation		Propose	ed Majo	r Name:		
Current Degre	e Title:	Master of S Education	cience	in	Propose	ed Degr	ee Title:		
Formal Option	n(s):				Propose	d Form	al Option(s):	
Specialty Field	ls w/in				Propose	ed Speci	ialty Fields		
Formal Option	n:				w/in Fo	rmal Op	otions:		
Date of Contact	ct with As	ssociate Prov	ost for	r Academic A	dministrat	ion¹:	Fall 2009		
Bulletin (yr &	pgs):			CIP Code ¹ :	13.1399		Toda	y's Date:	02.22.2011
Accrediting Agency (if applicable): National Council for Accreditation of Teacher Education and Kentucky Education Professional Standards Board									
Requested Eff	ective Da	te: 🛛 🔀 Se	meste	r following a	pproval.	OR	Spe	cific Date ² :	
Dept. Contact Person: Margaret Schroeder F			Phone:	257.3	073	Email:	m.mohr@uky.edu		

2. CHANGE(S) IN PROGRAM REQUIREMENTS

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

EDC 607

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.

REQUEST FOR CHANGE IN MASTERS DEGREE PROGRAM

	REQUEST FOR CHANG	E IN MASTERS DEGREE PROGRAI	VI
		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 offered by another department/program. Rodepartment(s). The proposed changes to this Master's degree outside of the College of Education or the co	outing Signature Log must include ap ee program does not change the req	uirements for content courses
12.	List any other requirements not covered abo	ove?	
	N/A		
13.	Please explain the rationale for changes. If the specific references to those requirements.	ne rationale involves accreditation re	equirements, please include
	16 KAR 5:010 Section 12 specifies that all A approved prior to December 31, 2010. The re University. Changes to the requirements of the	edesigned Master's degree was appro	ved last Spring 2010 at the
	necessitated a change to the Master of Science The program changes proposed will allow for	e in Education - STEM Education P	rogram.

REQUEST FOR CHANGE IN MASTERS DEGREE PROGRAM

Signature Routing Log

General	Infa	rene mail	-
OCHEI GI	HHU	mati	UH.

Proposal Name:

Master of Science in STEM Eduction

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,	Specific
C+C Comm	7/28/11	Doug Smith 17-4 desmit la	Dungles Church
College of Ed	4/19/11	Shapiro 1975/ shapola	Colet Shan
EVL	9/20/11	Lars Bjork 1245 / !bjorleuly.	de Guerro Dianes
EDC:	9/20/11	Parker Fawson 17- 1 Parker Fawson	Parla Facili
	1		

External-to-College Approvals:

	Council	Date Approved	Signature	Approval of Revision ⁴
Under	raduate Council			annual control of the
Gra	duate Council			The second secon
Health Ca	re Colleges Council			AND THE RESIDENCE OF THE PARTY
Senate	Council Approval		University Senate Approval	
American Company of the Company of t		A Commence of the Commence of	decension of energy to squares and animals of the squares and squa	

Comments:	

EPE 9/20/11 ALAN DEYOUNG ADDLYCUKY. EDU 7-3846 J. Was

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							
Address	Street			City		State	Zip
Phone	e Home Work		_	Cell/Other	Semester of Admission to Master's		on to Master's
	поше	VVOIK		Cell/Other		Progran	n

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			3
2EIVI 012	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	Educational Assessment			3
522				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			3
	Practice			
ELS 600	Leadership for Learning-Centered Schools	Fall		3
ELS 601	Building a Professional Learning Community	Fall		1
ELS 602	Leadership Roles in Professional Learning Communities	Fall		1
ELS 603	Leadership for Student Learning	Fall		1
ELS 604	Leadership in Professional Learning Communities	Fall		3
ELS 605	Legal Rights and Responsibilities of Students	Spring		1
ELS 606	Legal Rights and Responsibilities for Teachers	Spring		1
ELS 607	Teacher Responsibilities in School-Based Decision Making	Spring		1
ELS 608	School Law and Governance for Teachers	Spring		3
ELS 609	Technology Leadership	Summer		1
ELS 610	Distributed Leadership in Schools	Summer		1
ELS 611	Current Issues for Education Leaders	Summer		1
ELS 612	Leadership for Technology and Innovation	Summer		3
ELS 613	Leadership in the Public Context of Education	Spring		1
ELS 614	Partnerships for Closing Achievement Gaps	Spring		1
ELS 615	Leadership for Response to Intervention in Inclusive Classrooms	Spring		1
ELS 616	Leadership for School as Inclusive Community	Spring		3
ELS 617	Teacher Leadership for Instructional Teams	Fall		1
ELS 618	Introduction to Leading Action Research for School Renewal	Fall		1
ELS 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

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