

CHANGE DOCTORAL DEGREE PROGRAM FORM

GENERAL INFORMATION

College:	<u>Education</u>	Department:	<u>College of Education</u>
Current Major Name:	<u>Education Sciences</u>	Proposed Major Name:	_____
Current Degree Title:	<u>PhD in Education Sciences</u>	Proposed Degree Title:	_____
Current Formal Option(s):	_____	Proposed Formal Option(s):	_____
Current Specialty Fields w/in Formal Option:	<u>Ed. Leadership, Curriculum & Instruction, Kinesiology & Health Promotion</u>	Proposed Specialty Fields w/in Formal Option:	<u>STEM Education</u>
Date of Contact with Associate Provost for Academic Administration ¹ :		<u>10/25/10</u>	
Bulletin (yr & pgs):	<u>currently not listed</u>	CIP Code ¹ :	<u>13.0601</u>
Today's Date:		<u>8/10/11</u>	
Accrediting agency (if applicable):	<u>SACS</u>		
Requested Effective Date:	<input checked="" type="checkbox"/> Semester following approval.		OR <input type="checkbox"/> Specific Date ² : _____
Dept Contact Person:	<u>Wilhelm</u>	Phone:	<u>859-257-1291</u>
Email:		<u>jennifer.wilhelm@uky.edu</u>	

CHANGE(S) IN PROGRAM REQUIREMENTS

	<u>Current</u>	<u>Proposed</u>
1. Number of transfer credits allowed: <small>(Maximum is Graduate School limit of total of 9 hours (or 25% of the credit hours needed to fulfill the pre-qualifying residency requirement.)</small>	_____	_____
2. Residence requirement: <small>(Minimum of one year before and after Qualifying Exams.)</small>	_____	_____
3. Language(s) and/or skill(s) required:	_____	_____
4. Provisions for monitoring progress and termination criteria:	_____	_____
5. Total credit hours required:	<u>39-48</u>	<u>30-51</u>
6. Required courses:	<u>21</u>	<u>12</u>
7. Required distribution of courses within program:	_____	_____
8. Minor area or courses outside program required:	_____	_____
9. Distribution of courses levels required	_____	_____

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 Programs are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

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(400G-500/600-700):		
10. Qualifying examination requirements:	_____	_____
11. Explain whether the proposed changes to the program (as described in numbers 1 through 10) involve courses offered by another department/program. <u>Routing Signature Log must include approval by faculty of additional department(s).</u>		
<u>NO</u>		
12. Other requirements not covered above:		
<u>1. STEM Education is being added as a new strand to the program. The total hours for the strand will be 39. (see attachment) 2. The requirement of students having to be fulltime is modified to allow part-time students with the permission of the program and DGS.</u>		
13. What is the rationale for the proposed changes? If the rationale involves accreditation requirements, please include specific references to those requirements.		
<u>The rationale for this STEM Education strand was due to the formation of the new STEM Education department which currently has no existing PhD programs of its own. The STEM Education program is designed to offer terminal degrees for individuals interested in studying any of the individual disciplines within STEM Education (i.e. Science Education, Math Education).</u>		

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Signature Routing Log

General Information:

Proposal Name: Ed Sci STEM strand

Proposal Contact Person Name: Jennifer Wilhelm

Phone: 257-1291

Email: jennifer.wilhelm@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	8/5/11	Jennifer Wilhelm / 257-1291 / jenniferwilhelm@uky.edu	
Ed Sci Faculty	8/5/11	Robert Shapiro / 257-9795 / rshap01@uky.edu	
C&C Comm	9/18/11	Doug Smith / dcsmit1@uky.edu / 7-1824	
EDU faculty	10/1/11	Robert Shapiro / 7-97955 / rshap01@uky.edu	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ³
Undergraduate Council			
Graduate Council	5/3/12	Brian Jackson	
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

³ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

STEM Education Strand

STEM Education Core (15 hours)

- SEM 603: Curriculum and Instruction in STEM Education
- SEM 706: Research in STEM Education
- SEM 770: Special Topics in STEM Education (Equity Issues)
- SEM 613: Effective Use of Technology
- History of Education (select 1 course)
 - EPE 651: (P-20) History of Education in the United States
 - SEM 604: History of STEM Education
 - SEM 701: History of Mathematics Education
 - EPE 653: History of Higher Education

Methods (Take 3 courses- 9 hours)

- SEM 708: Engineering in STEM Education
- SEM 670: Advanced Study Mathematics
- SEM 674: Advanced Studies in Teaching Elementary School Science
- SEM 704: Designing Project-Enhanced Environments in STEM Education
- SEM 770: Special Topics in STEM Education
- EPE 672: College Teaching and Learning
- GS 699: Practicum for College Teaching

Elective STEM Courses (6 credit hours)

- SEM 702: Theoretical Foundations of Mathematics Education
- SEM 703: Advanced Research in Mathematics Education
- SEM 708: Engineering in STEM Education
- SEM 704: Designing Project-Enhanced Environments in STEM Education
- SEM 674: Advanced Studies in Teaching Elementary School Science
- SEM 670: Advanced Elementary Mathematics Methods
- SEM 610: Teacher Leadership in STEM Education
- SEM 770: Special Topics in STEM Education
- SEM 781: Independent Study in STEM Education

Elective Other (Outside of STEM Education) (9 or 12 hours) (approval of advisor)