

# Program Change Request

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Date Submitted: 09/08/16 2:06 pm

Viewing: **CHEDBS-STEM : Childhood Education  
STEM Concentration**

Last approved: 04/15/16 5:41 pm

Last edit: 09/09/16 1:56 pm

**Changes proposed by: dbignar**

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## In Workflow

1. EDUC Dean Initial
2. Director of Program Assessment and Review
3. Registrar Initial
4. CIED Chair
5. EDUC Curriculum Committee
6. EDUC Faculty
7. EDUC Dean
8. Global Campus
9. Provost Review
10. University Course and Program Committee
11. Faculty Senate
12. Provost Final
13. Provost's Office-- Notification of Approval
14. Registrar Final
15. Catalog Editor Final

## Approval Path

1. 09/08/16 2:15 pm  
jpenner: Approved for EDUC Dean Initial
2. 09/09/16 2:01 pm  
agriffin: Approved for Director of Program Assessment and Review
3. 09/15/16 2:29 pm  
lkulcza: Approved for Registrar Initial
4. 09/15/16 4:08 pm  
mkd03: Approved for CIED Chair
5. 10/03/16 2:03 pm  
jpenner: Approved for EDUC Curriculum Committee

- 6. 10/03/16 2:26 pm  
jpenner: Approved for EDUC Faculty
- 7. 10/03/16 2:27 pm  
jpenner: Approved for EDUC Dean
- 8. 10/03/16 4:52 pm  
pritchey: Approved for Global Campus
- 9. 10/04/16 2:06 pm  
tmartin: Approved for Provost Review

### History

- 1. Jun 9, 2015 by lkulcza
- 2. Apr 15, 2016 by lkulcza

Catalog Pages Using this Program [Childhood Education \(CHED\)](#)

Submitter: User ID: lkulcza  
Phone: 7456

Academic Level Undergraduate

Select a reason for the proposed change: Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding Focused Study)

Program Status Active

Academic Unit Major/Field of Study

Are you adding, changing or deleting a concentration? No

Action	Proposed Code	Proposed Name

Are you adding, changing or deleting a track? No

Action	Proposed Code	Proposed Name

Are you adding, changing or deleting a focused study? No

Action	Proposed Code	Proposed Name

Effective Catalog Year Fall **2017** ~~2016~~

College, School, Division College of Education and Health Professions (EDUC)

Department Code	Department of Curriculum and Instruction (CIED)
Program Code	CHEDBS-STEM
Degree	Bachelor of Science in Education
CIP Code	13.1202 - Elementary Education and Teaching.
Program Title	Childhood Education STEM Concentration
Method of Delivery	On Campus
Is this program interdisciplinary or use courses from another College?	No
Does this change the total hours needed to complete the program?	No

## Program Requirements, Description and 8-Semester Plan

### STEM Concentration (STEM)

Pre- Elementary Education (PELED) requirements <sup>†</sup>

University Core (State Minimum Core) \*

35

\* specifically required for CHED program

<a href="#"><u>ENGL 1013</u></a>	Composition I (ACTS Equivalency = ENGL 1013) (Sp, Su, Fa)
<a href="#"><u>ENGL 1023</u></a>	Composition II (ACTS Equivalency = ENGL 1023) (Sp, Su, Fa)
<a href="#"><u>MATH 1203</u></a>	College Algebra (Sp, Su, Fa) (ACTS Equivalency = MATH 1103)
<a href="#"><u>BIOL 1543</u></a> & <a href="#"><u>BIOL 1541L</u></a>	Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) (Sp, Su, Fa) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab) (Sp, Su, Fa)
<a href="#"><u>GEOS 1113</u></a> & <a href="#"><u>GEOS 1111L</u></a>	General Geology (ACTS Equivalency = GEOL 1114 Lecture) (Sp, Su, Fa) and General Geology Laboratory (ACTS Equivalency = GEOL 1114 Lab) (Sp, Su, Fa)
<a href="#"><u>HIST 2003</u></a>	History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Sp, Su, Fa)
<a href="#"><u>GEOS 1123</u></a>	Human Geography (ACTS Equivalency = GEOG 1113) (Sp, Su, Fa)
or <a href="#"><u>ANTH 1023</u></a>	Introduction to Cultural Anthropology (ACTS Equivalency = ANTH 2013) (Sp, Su, Fa)
<a href="#"><u>HIST 2013</u></a>	History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) (Sp, Su, Fa)
<a href="#"><u>HIST 1113</u></a>	Institutions and Ideas of World Civilizations I (ACTS Equivalency = HIST 1113) (Sp, Fa)
or <a href="#"><u>HIST 1123</u></a>	Institutions and Ideas of World Civilizations II (ACTS Equivalency = HIST 1123) (Sp, Fa)
<a href="#"><u>ARHS 1003</u></a>	Basic Course in the Arts: Art Lecture (ACTS Equivalency = ARTA 1003) (Sp, Su, Fa)
<a href="#"><u>COMM 1233</u></a>	Media, Community and Citizenship (Sp, Fa)

- or [WLIT 1113](#) World Literature I (ACTS Equivalency = ENGL 2113) (Sp, Su, Fa)
- or [PHIL 2003](#) Introduction to Philosophy (ACTS Equivalency = PHIL 1103) (Sp, Su, Fa)
- or [PHIL 2103](#) Introduction to Ethics (ACTS Equivalency = PHIL 1003) (Sp, Su, Fa)
- or [PHIL 2203](#) Logic (ACTS Equivalency = PHIL 1003) (Sp, Su, Fa)
- or [PHIL 3103](#) Ethics and the Professions (Sp, Su, Fa)

## Additional PELED requirements

28

- [CIED 1013](#) Introduction to Education (Sp, Fa)
- [COMM 1313](#) Public Speaking (ACTS Equivalency = SPCH 1003) (Sp, Su, Fa)
- or [COMM 2323](#) Interpersonal Communication (Sp, Su, Fa)
- [HIST 3383](#) Arkansas and the Southwest (Sp, Fa) (or any 3hr Arkansas history course)<sup>1</sup>
- [MATH 2213](#) Survey of Mathematical Structures I (Sp, Su, Fa)
- [MATH 2223](#) Survey of Mathematical Structures II (Sp, Su, Fa)
- [MLIT 1003](#) Basic Course in the Arts: Music Lecture (ACTS Equivalency = MUSC 1003) (Sp, Su, Fa)
- [PHYS 1034](#) Physics for Elementary Education Majors (Sp)
- or [ASTR 2003/2001L](#) Survey of the Universe (ACTS Equivalency = PHSC 1204 Lecture) (Sp, Su, Fa)
- or [STEM 4104](#) Astronomy for Educators (Sp, Fa)
- [PLSC 2003](#) American National Government (ACTS Equivalency = PLSC 2003) (Sp, Su, Fa)
- [STAT 2303](#) Principles of Statistics (ACTS Equivalency = MATH 2103) (Sp, Su, Fa) (or any 3hr Statistics course)

## Childhood Education \*

59

## Childhood Education major requirements \*

47

\* completed following admission to CHED program

- [ENGL 2003](#) Advanced Composition (Sp, Su, Fa)
- [ENSC 1003](#) Environmental Science (Sp, Fa)
- 3 hour MATH Elective (consult adviser)
- [ECON 3053](#) Economics for Elementary Teachers (Fa)
- or [ECON 2143](#) Basic Economics: Theory and Practice (Sp, Su, Fa)
- [CIED 3013](#) Development and Learning Theories in the K-6 Classroom (Sp, Fa)<sup>†</sup>
- [CIED 3023](#) Survey of Exceptionalities (Sp, Su, Fa)<sup>†</sup>
- [CIED 3053](#) The Emerging Adolescent (Sp, Fa)<sup>†</sup>
- [CIED 3103](#) Children and Adolescent Literature (Sp, Fa)<sup>†</sup>
- [CIED 3113](#) Emergent and Developmental Literacy (Sp, Fa)<sup>†</sup>
- [CIED 3123](#) Mathematics Methods in the K-6 Classroom (Sp, Fa)<sup>†</sup>
- [CIED 3133](#) Integrated Social Studies for the K-6 Classroom (Sp, Fa)<sup>†</sup>
- [CIED 3143](#) Teaching Science in the Elementary Grades (Sp, Fa)<sup>†</sup>
- [CIED 3262](#) Language Development for the Educator (Sp, Fa)<sup>†</sup>
- [CIED 4113](#) Integrated Communication Skills for the K-6 Classroom (Sp, Fa)<sup>†</sup>
- [CIED 4153](#) Classroom Management in the Elementary Grades (Sp, Fa)<sup>†</sup>
- [CIED 4363](#) Disciplinary Literacy in the K-6 Classroom (Sp, Fa)<sup>†</sup>

## STEM Concentration requirements

12

3 hour General Elective

- [CIED 4423](#) Teaching English as a Second Language (Sp)<sup>†</sup>

**STEM 4033** Introduction to STEM Education (Sp, Su) †

**STEM 5023** Creativity and Innovation in STEM (Su, Fa) †

Total Hours

122

## Childhood Education B.S.E. (STEM concentration)

### Eight-Semester Plan

Because this program requires admission to progress, it does not qualify for the university's Eight-Semester Degree Program; however, students who qualify to finish a degree in four years can follow the suggested order of classes below.

#### First Year

	Units
	Fall Spring
<b>ENGL 1013</b> Composition I (ACTS Equivalency = ENGL 1013) (Sp, Su, Fa)	3
<b>MATH 1203</b> College Algebra (Sp, Su, Fa) (ACTS Equivalency = MATH 1103)	3
<b>BIOL 1543</b> Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) (Sp, Su, Fa) & <b>BIOL 1541L</b> Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab) (Sp, Su, Fa)	4
<b>ARHS 1003</b> Basic Course in the Arts: Art Lecture (ACTS Equivalency = ARTA 1003) (Sp, Su, Fa)	3
<b>HIST 2003</b> History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Sp, Su, Fa)	3
<b>ENGL 1023</b> Composition II (ACTS Equivalency = ENGL 1023) (Sp, Su, Fa)	3
<b>STAT 2303</b> Principles of Statistics (ACTS Equivalency = MATH 2103) (Sp, Su, Fa) (or any 3 hr Statistics course)	3
<b>COMM 1313</b> Public Speaking (ACTS Equivalency = SPCH 1003) (Sp, Su, Fa) or <b>COMM 2323</b> Interpersonal Communication (Sp, Su, Fa)	3
<b>CIED 1013</b> Introduction to Education (Sp, Fa)	3
<b>HIST 2013</b> History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) (Sp, Su, Fa)	3
Year Total:	16 15

#### Second Year

	Units
	Fall Spring
<b>PHYS 1034</b> Physics for Elementary Education Majors (Sp) or <b>ASTR 2003</b> and <b>ASTR 2001L</b> or <b>STEM 4104</b> Astronomy for Educators (Sp, Fa)	4
<b>COMM 1233</b> Media, Community and Citizenship (Sp, Fa) or <b>PHIL 2003</b> Introduction to Philosophy (ACTS Equivalency = PHIL 1103) (Sp, Su, Fa) or <b>PHIL 2103</b> Introduction to Ethics (ACTS Equivalency = PHIL 1003) (Sp, Su, Fa) or <b>PHIL 2203</b> Logic (ACTS Equivalency = PHIL 1003) (Sp, Su, Fa) or <b>PHIL 3103</b> Ethics and the Professions (Sp, Su, Fa) or <b>WLIT 1113</b> World Literature I (ACTS Equivalency = ENGL 2113) (Sp, Su, Fa)	3
<b>MATH 2213</b> Survey of Mathematical Structures I (Sp, Su, Fa)	3
<b>PLSC 2003</b> American National Government (ACTS Equivalency = PLSC 2003) (Sp, Su, Fa)	3
<b>MLIT 1003</b> Basic Course in the Arts: Music Lecture (ACTS Equivalency = MUSC 1003) (Sp, Su, Fa)	3
<b>HIST 1113</b> Institutions and Ideas of World Civilizations I (ACTS Equivalency = HIST 1113) (Sp, Fa)	3
<b>GEOS 1113</b> General Geology (ACTS Equivalency = GEOL 1114 Lecture) (Sp, Su, Fa) & <b>GEOS 1111L</b> General Geology Laboratory (ACTS Equivalency = GEOL 1114 Lab) (Sp, Su, Fa)	4
<b>MATH 2223</b> Survey of Mathematical Structures II (Sp, Su, Fa) or <b>ANTH 1023</b> Introduction to Cultural Anthropology (ACTS Equivalency = ANTH 2013) (Sp, Su, Fa)	3

<b><u>GEOS 1123</u> Human Geography (ACTS Equivalency = GEOG 1113) (Sp, Su, Fa)</b>	<b>3</b>
<b>or <u>ANTH 1023</u> Introduction to Cultural Anthropology (ACTS Equivalency = ANTH 2013) (Sp, Su, Fa)</b>	
<b>Select one of the following:</b>	
<b><u>HIST 3383</u> Arkansas and the Southwest (Sp, Fa)</b>	<b>3</b>
<b>Any 3-hour Arkansas History course</b>	
Year Total:	16 16

**Third Year****Units  
Fall Spring**

<b><u>CIED 3013</u> Development and Learning Theories in the K-6 Classroom (Sp, Fa)</b>	<b>3</b>
<b><u>ENGL 2003</u> Advanced Composition (Sp, Su, Fa)</b>	<b>3</b>
<b><u>CIED 3103</u> Children and Adolescent Literature (Sp, Fa)</b>	<b>3</b>
<b><u>CIED 3262</u> Language Development for the Educator (Sp, Fa)</b>	<b>2</b>
<b>Electives</b>	<b>3</b>
<b><u>CIED 3113</u> Emergent and Developmental Literacy (Sp, Fa)</b>	<b>3</b>
<b><u>CIED 3053</u> The Emerging Adolescent (Sp, Fa)</b>	<b>3</b>
<b><u>ENSC 1003</u> Environmental Science (Sp, Fa)</b>	<b>3</b>
<b>Math Electives</b>	<b>3</b>
<b><u>ECON 3053</u> Economics for Elementary Teachers (Fa)</b>	<b>3</b>
<b>or <u>ECON 2143</u> Basic Economics: Theory and Practice (Sp, Su, Fa)</b>	
Year Total:	14 15

**Fourth Year****Units  
Fall Spring**

<b><u>CIED 3123</u> Mathematics Methods in the K-6 Classroom (Sp, Fa)</b>	<b>3</b>
<b><u>CIED 4113</u> Integrated Communication Skills for the K-6 Classroom (Sp, Fa)</b>	<b>3</b>
<b><u>CIED 4423</u> Teaching English as a Second Language (Sp)</b>	<b>3</b>
<b><u>CIED 3133</u> Integrated Social Studies for the K-6 Classroom (Sp, Fa)</b>	<b>3</b>
<b><u>STEM 4033</u> Introduction to STEM Education (Sp, Su)</b>	<b>3</b>
<b><u>CIED 4153</u> Classroom Management in the Elementary Grades (Sp, Fa)</b>	<b>3</b>
<b><u>CIED 4363</u> Disciplinary Literacy in the K-6 Classroom (Sp, Fa)</b>	<b>3</b>
<b><u>CIED 3143</u> Teaching Science in the Elementary Grades (Sp, Fa)</b>	<b>3</b>
<b><u>CIED 3023</u> Survey of Exceptionalities (Sp, Su, Fa)</b>	<b>3</b>
<b><u>STEM 5023</u> Creativity and Innovation in STEM (Su, Fa)</b>	<b>3</b>
Year Total:	15 15

Total Units in Sequence:	122
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Are Similar Programs available in the area?	No
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Estimated Student Demand for Program:	na
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Scheduled Program Review Date:	na
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Program Goals and

Objectives: na

Learning Outcomes: na

Description and justification of the request: Expanded the listing for the University Core courses to include: PHIL 2003 and PHIL 2103. Added course options to the additional PELED requirements to allow students to choose from PHYS 1034, ASTR 2003/2001L, or STEM 4104. Also allowing students to take STAT 2303 or any 3 hour Statistics course. These curriculum changes will allow student flexibility with course choice.

Adjustment of catalog layout to more clearly define concentration studies to align with ADHE requirements.

Created 8DCP for concentration following prescribed plan of study and included changes listed above.

Program reviewer comments

**agriffin (08/26/16 4:31 pm):** Rollback: Please describe each of the changes in the description and justification block.

**agriffin (09/08/16 11:16 am):** Rollback: Rolling back to include concentration specific courses into catalog copy.

**agriffin (09/09/16 1:56 pm):** Changed CHED credit hours from 50 to 47, moved CIED 4423 to the STEM Concentration block, and changed total hours for STEM concentration from 9 to 12 credit hours with permission from submitter.

Uploaded attachments: