


# CIE - 634 - Integrated STEM Education Curriculum and Research

v 2 Graduate Course Create 2019-20


## I. Course Information


### \*\*Read before you begin\*\*

TURN ON help text before starting this proposal by clicking  in the top right corner of the heading. You will need to turn on help text again after any actions that refresh the page including after saving proposals.

FILL IN all fields, including all required fields (marked with an \*). You will not be able to launch the proposal without completing required fields.

LAUNCH proposal by clicking  in the top left corner.

Finish the launch of your proposal by clicking the icon  located in the Proposal Toolbox on left side at top. Make your decision, comment is optional, and click on "Make decision".

You can check the status of the proposal by clicking  in Proposal Toolbox to verify that the proposal has gone to the next step.

College/ Department*	Teaching and Learning	
Prefix:*	CIE	Number: * 634
Is a new Prefix being suggested?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Suggested Prefix		
Long Course Name:*	Integrated STEM Education Curriculum and Research	
Short Course Name*	STEM Curriculum and Research	

### Tips

avoid the use of the words *student*, *course*, and *covers*  
 incomplete sentences are ok  
 avoid repeating the course title

(50 words max)

**Catalog Description\***

Examines elementary STEM curriculum programs and STEM education research conducted in K-8 school settings.

**First Term Course Offered\***

Fall 2019

**Explanation for Course Create\***

This course will be included in a new K-8 STEM Education certificate and new K-8 STEM education emphasis area for the Master of Science-Curriculum and Instruction Program. The new certificate and emphasis area meet the needs of an increased interest in STEM Education. Educators are interested in learning more about integrating STEM subjects and improving their current practice.

## II. Catalog Information

**Will this be an experimental (x) course?\***  Yes  No

**Has this course number been used previously as an Experimental (X) course?**  Yes  No

**If yes, X-Course Prefix**

**X-Course Code**

**Program(s) impacted by this new course\***

This course will be included in a new K-8 STEM Education certificate and new K-8 STEM education emphasis area for the Master of Science-Curriculum and Instruction Program. A program change form will be filled out and a certificate create form.

**Substantive changes will necessitate a Program Change form be submitted.**

**Detail the changes to the program catalog entry required due to the creation of this course.\***

This course will be included in a new K-8 STEM Education certificate and new K-8 STEM education emphasis area for the Master of Science-Curriculum and Instruction Program. A program change form will be filled out and a certificate create form.

**Fixed/Variable Credits\***  Fixed  Variable

**If fixed, enter number of credits. If variable, enter minimum and maximum credits (E.g., 1-3)**

**Number of Credits** 3

**Course is**  Yes

**If yes, the**

**repeatable\*** No**maximum number  
of credits that  
may be earned is****Grading System\***

- Letter Grade
- S/U
- S/F
- Thesis/Dissertation

**Is this a Special  
Topics course?\*** Yes  No**Sub-topic(s)****Are topics  
repeatable?** Yes  No**If yes, number of  
credits****Prerequisites**

Graduate Standing

**Corequisites****Does this course  
have any non-  
credit  
components?** Yes  No**If yes, indicate  
component(s)**

- Clinical
- Discussion
- Field Studies
- Independent Study
- Internship
- Laboratory
- Lecture
- Practicum
- Research
- Seminar
- Supervision
- Thesis Research

**Will this course be  
listed as the 'same  
as' another  
course?\*** Yes  No**If yes, list the  
course****Indicate the  
instructional** In Person  Supplemental Web

- modes that should be available for scheduling\***
- Field Study
  - Hybrid
  - Independent Study
  - In Person
  - Television
  - Web-based
  - Web-based w/ on/off campus meeting

### III. Evaluation of Library Resources

This section is completed by course developer—indicate library resources that will be needed to support this course

**Will this course creation require changes to library resources?\***  Yes  No

- Please indicate library resources that will be needed to support students taking this course\***
- Core journals
  - Core books (not required texts)
  - Electronic resources (e.g., databases, videos, media, etc.)

**Critically needed journals for this subject area:** Science and Children, Science Scope, Journal for STEM Education Research, Journal of Research in Science Teaching, Teaching Children Mathematics, Mathematics Teaching in the Middle School, Mathematics Teacher: Learning and Teaching PK-12 (new journal in 2020), School Science and Mathematics, Journal of STEM Education,

**Core books needed:**

**Electronic Resources:**

This section is completed by the librarian.

**Level of support the Library can provide**

**Library Comments**

### IV. Syllabus


A syllabus in Word or PDF format must accompany this form.

Graduate syllabi must meet the minimum criteria as required by the Provost's office (See Semester Memo under Executive Vice President and Provost Policies and Forms <http://www.unlv.edu/policies>). Graduate courses that are linked to undergraduate courses (300/500 and 400/600 level joint courses) must clearly state in the syllabus how the class experience and

and 400/600 level joint courses) must clearly state in the syllabus how the class experience and expectations are different for graduate students, what additional requirements students enrolled in

the graduate level course must fulfill, and how the grading scale will be applied to graduate students.

## Attachments List

Please attach any required files by navigating to the Proposal Toolbox and clicking  in the top right corner.

Attached syllabus\*  Attached

## V. Department Vote Information

**Date faculty voted on proposal** 2-20-19

**Result of vote (Number of yes/no/abstention votes)** 13-0-0

**Manner of vote (online, in-person, etc.)** in-person

## VI. Unit Vote Information

**Date faculty voted on proposal** 10/28/2019

**Result of vote (Number of yes/no/abstention votes)** 8-8

**Manner of vote (online, in-person, etc.)** pers.

## VIII. Implementation and Processing

**PS Processing Notes**

**PS Processing Date**

**Initials**

**Acalog Processing Notes**

**Aalog Processing  
Date**

**Initials**

## Comments for CIE - 634 - Integrated STEM Education Curriculum and Research

<b>Curriculog</b>	2/18/2020 4:59 pm <a href="#">Reply</a>
James Navalta has approved this proposal on behalf of Graduate Course Review Committee. See <a href="#">Graduate Course Review Committee 02-12-2020</a> for more information.	
<b>Curriculog</b>	11/5/2019 4:45 pm <a href="#">Reply</a>
Tracy Spies has approved this proposal on Associate Dean for Graduate Studies/ Dean.	
<b>Lisa Bendixen</b>	10/28/2019 12:31 pm <a href="#">Reply</a>
Unanimous, in-person vote 8/8.	
<b>Curriculog</b>	10/28/2019 12:31 pm <a href="#">Reply</a>
Lisa Bendixen has approved this proposal on School/College Committee.	
<b>Curriculog</b>	8/20/2019 12:17 pm <a href="#">Reply</a>
Teacher Education Graduate Coordinator has approved this proposal on Graduate Coordinator/Department Chair.	
<b>Curriculog</b>	8/20/2019 11:20 am <a href="#">Reply</a>
TL Graduate Coordinator has approved this proposal on Graduate Coordinator/Department Chair.	
<b>Curriculog</b>	8/20/2019 11:14 am <a href="#">Reply</a>
TL Chair has approved this proposal on Graduate Department Curriculum Committee.	
<b>Curriculog</b>	8/17/2019 8:35 am <a href="#">Reply</a>
TL Graduate Coordinator has approved this proposal on Graduate Department Curriculum Committee.	
<b>Graduate Curriculum</b>	8/16/2019 1:46 pm <a href="#">Reply</a>
No concerns.	
<b>Curriculog</b>	8/16/2019 1:46 pm <a href="#">Reply</a>
Graduate Curriculum has approved this proposal on Technical Review.	

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**Curriculog**

8/16/2019 11:51 am [Reply](#)

System Administrator Graduate Curriculum has restarted the Technical Review step as a result of participants being added to or removed from the step.

**Curriculog**

8/16/2019 11:24 am [Reply](#)

System Administrator Graduate Curriculum has restarted the Technical Review step as a result of participants being added to or removed from the step.

**Curriculog**

8/16/2019 11:22 am [Reply](#)

System Administrator Graduate Curriculum has restarted the Technical Review step as a result of participants being added to or removed from the step.

**Curriculog**

8/12/2019 1:46 pm [Reply](#)

System Administrator Graduate Curriculum has restarted the Technical Review step as a result of participants being added to or removed from the step.

**Curriculog**

8/10/2019 11:18 am [Reply](#)

Micah Stohlmann has approved this proposal on Originator.

**Graduate Curriculum**

2/25/2019 3:31 pm [Reply](#)

- 1. In the syllabus, please insert sample course schedule that includes topics, assignments, and due dates.
  - 2. Please specify pre-requisite.
- Note to GC- please check the proposed course number.

**Curriculog**

2/25/2019 3:31 pm [Reply](#)

Graduate Curriculum has rejected this proposal on Technical Review.

**Curriculog**

2/12/2019 12:31 pm [Reply](#)

Micah Stohlmann has approved this proposal on Originator.

**Curriculog**

2/12/2019 12:31 pm [Reply](#)

Micah Stohlmann has launched this proposal.