

**Certification in College Teaching - Mentored Teaching Project Approval  
Document**

Full Graduate Student Name: Hunter M<sup>c</sup>Fall-Boegeman

NETID: mcfallbo

Context for Project (e.g., course name)

CEM255

Proposed Semester for Project

Fall Semester 2020 Spring Semester 2021

I am willing to have a link to my ePortfolio shared on the Graduate School website.  YES  NO (circle one)

**PROJECT OBJECTIVES:**

The objective of the project is to develop and test pilot 2-3 case studies for use in the redesigned CEM255 (non-majors organic chemistry laboratory) recitation around a green chemistry theme.

**DESCRIPTION OF PROJECT, INCLUDING IMPLEMENTATION, STUDENT OBJECTIVES, TIMELINES, AND YOUR RESPONSIBILITIES IN CARRYING OUT THE PROJECT:**

This project will develop 2-3 case study activities for CEM255, a non-majors organic chemistry laboratory. We will design these case studies to teach green chemistry principles through the students' use of their chemistry knowledge to engage in green and sustainable decision-making. My responsibility over the next year is to use Dr. Cooper's design template and feedback to design and test a case study through student interviews, observations, and analysis of student work..

**MENTOR'S ROLE IN THE PROJECT, INCLUDING PLANNED MEETINGS AND PROJECT ASSESSMENT:**

Dr. Cooper will meet with myself and a post-doc (Elizabeth Day) to refine the design template and provide feedback. After data collection Dr. Cooper will outline the qualitative analysis process using PI-generated research rubrics.

**METHODS OF ASSESSMENT:**

The initial draft of the case study will be piloted with undergraduate researchers in the Cooper lab using think-aloud interviews. The data collected will be utilized to revise the case study's language, pacing, and content. Following the revisions the case studies will be implemented in a pilot section. Data will be collected based off of student responses as well as interviews of students.

**SIGNATURES FOR APPROVAL (#1 and #2 are for pre-project approval; #3 is for post-project approval)**

1. I support the student's participation in the Certification in College Teaching program, and I certify that she/he/they is/are making good progress towards the degree.

Advisor Name

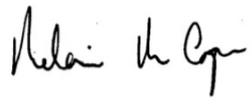
Xuefei Huang

Date: 7/15/20

Signature:



2. I approve the proposed Mentored Teaching Project as described above, and will assist in project design, implementation and methodology where needed.

Mentored Teaching Project Mentor Name	Melanie Cooper	Date: 7/14/20	Signature: 
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3. The student has satisfactorily completed the Mentored Teaching Project in the Certification in College teaching program as described above.

Mentored Teaching Project Mentor Name	Melanie Cooper	Date: 7/28/2022	Signature: 
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