

Round	14
Grant #	M83
Applicant Name	Tashia Caughran
Applicant Position	Lecturer
Applicant Institution	University of North Georgia
Applicant Email Address	tashia.caughran@ung.edu
Other Team Members	Bill Ellenberger
Type of Project	Creation of ancillaries for pre-existing OER
Course Number(s) and Title(s)	CHEM 1211 and CHEM 1151
Final Semester of the Project	Spring 2020
Proposed Grant Funding Amount:	\$4,800.00
Currently-Existing Resource(s) to be Revised / Ancillaries Created	Creation of Case Studies for CHEM 1211 and CHEM 1151 Lecture Courses
Project Description	<p>The CHEM 1211 and 1151 courses have previously been taught using a traditional style lecture. Students are often disengaged, and express that material presented in this manner is not relatable to them. Students also do not retain the material throughout the semester, and perform poorly on a comprehensive, cumulative final exam. Faculty teaching these courses want to move to a more active learning environment where students are more engaged.</p> <p>The purpose of this proposal is to develop lecture activities i.e. case studies to introduce during lecture time or as an outside group activity. The case studies will provide an opportunity for students to explore chemistry topics in a more relatable format. Literature suggests that in-class activities promote increased long-term retention of the subject matter being taught. In addition, these activities will connect foundational chemistry topics to the lives of our students to make them more understandable and relatable.</p> <p>The proposal is to develop four case studies to be used in the CHEM 1211 and/or CHEM 1151 courses on two of our UNG campuses. The case study material will cover important chemistry content such as stoichiometry, rates of reaction, equilibrium, and calorimetry. Other ancillary materials used may include worksheets, lecture demos, lecture videos, and in-class activities to complement the case study material.</p>

<p>Timeline and Personnel</p>	<p>All team members will be involved in each of the tasks listed below. May 1-10, 2019 Final topics for Case Studies established. May 10-August 10, 2019: Development of Case Study content, lecture demos, and in-class activities. In the Fall 2019 semester, the case studies will be implemented in the CHEM 1211 and Chem 1151 courses. Edits to the studies will be made at the end of the semester based on instructor and student feedback. In the Spring 2020 semester, a worksheet or quiz will be presented to students before and after the introduction of the case study. Scores will be compiled for these activities and evaluated. At the end of the Spring 2020 semester, team members will compare results of the worksheets/quizzes to make assessments of the effectiveness of the case study.</p>
<p>Budget</p>	<p>Funds will be used for summer support for all team members (maximum of \$2,000 to each member). A budget of \$300 will be divided equally among the team members and used to purchase materials. Depending on the case study, these materials will include supplies for presenting a lecture demo introducing the case study, or the materials might include kit supplies for an in-class activity. A budget of \$500.00 will be equally divided among team members to attend and possibly present a poster of the results at a local or regional scientific meeting.</p>
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