

<b>Application Number</b>	M65
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<b>Team Members</b>	Ana West, Sara Blankenship, Vince Du, Joel Caughran, Charles Kutal
<b>Type</b>	Creation of Ancillary Materials for CHEM 1210 Recitation Sessions
<b>Course Number / Title</b>	CHEM 1210
<b>Final Semester</b>	Spring 2020

<b>Grant Amount</b>	\$4,800.00
<b>Works Being Revised</b>	Creation of Ancillary Materials for CHEM 1210 Recitation Sessions

<b>Description</b>	<p>CHEM 1211 and 1212 have recently adopted the OER textbook, "Atoms First" which is being reorganized to reflect our curriculum changes. Part of this course redesign included a pilot study of the use of peer learning assistants (PLA's) in CHEM 1211 either during class, in an additional weekly one hour study group, or in an additional weekly one hour recitation section. Early data has shown that students who utilize PLA's in CHEM 1211 earn a greater number of A and B grades compared to CHEM 1211 students in non-PLA sections (approximately 62% versus 48%). The past two semesters have utilized PLA's in only one section of CHEM 1211, respectively, but in the coming semester the PLA program for CHEM 1211 is being expanded to all sections of the class.</p> <p>The success in the trial sections of CHEM 1211 utilizing PLA's in weekly one hour study and recitation sessions has prompted the general chemistry faculty to adopt a similar model for CHEM 1210. CHEM 1210 is a 4 credit hour class that will be undergoing a complete curriculum and pedagogical redesign which will include adoption of an OER textbook and utilization of the fourth hour of class as a weekly one hour instructor-led recitation session. In these recitation sessions, students will work in groups and PLA's will be assigned to assist students gain a deeper understanding of the process of problem solving as it relates to the CHEM 1210 content.</p> <p>During the CHEM1210 recitation sessions students will utilize additional resources such as worksheets and case studies. There is no laboratory component to CHEM 1210 so virtual lab experiments will also be employed. The purpose of this ALG proposal is to develop these ancillary materials which will include worksheets, case studies and videos to embed in the textbook to better meet the needs of the students and assist in deeper learning and understanding of the content and the interrelation of chemistry to other disciplines. Virtual lab experiments will also either be developed or identified from other sources to supplement problem solving and to enhance the content presented in class.</p>
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<b>Timeline</b>	<p>All team members will be involved in each of the tasks listed below. In the spring semester Ellenberger and West are teaching 2 classes, Kutal and Gokal 1 class; in the summer term Ellenberger is teaching 1 class; in the fall semester Kutal will teach 1 class, Ellenberger 2 classes and West and Gokal will teach 3 classes.</p> <p>February 1 – May 1: Develop worksheets and case studies; develop or identify meaningful virtual labs; develop videos to embed within the textbook for use during PLA recitation sessions. Development of ancillary materials will be ongoing and perpetual.</p> <p>August 1 – August 31: Create a survey for the new materials to be given to student users in CHEM 1210</p> <p>December 13: Survey data for the new materials has been collected and compiled from students in CHEM 1210</p> <p>May 10: Survey data for the new materials has been collected and compiled from students in CHEM 1210</p>
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<b>Budget</b>	Funds will be used to provide one month of summer support for eligible team members (maximum of \$2,000 support to any individual). Projected expenses are unknown until the new materials have been created.
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