

OER Revisions and Ancillary Materials Creation

Mini-Grant Application

Affordable Learning Georgia aims to support the sustainability of previous Textbook Transformation Grants implementations through revisions of created open educational resources or the creation of new ancillary materials for existing OER. Mini-grant participants do not need to be the original creators of the resource(s). While we welcome original authors to revise their original materials, the nature of open licenses allows for the revision and remixing of OER materials by anyone as long as the terms of the license are adhered to.

The final deliverable for this category is the revised or newly-created materials as proposed in the application, which will be hosted through GALILEO Open Learning Materials. All revised or newly-created materials will be made available to the public under a Creative Commons Attribution License (CC-BY), unless the original materials were under a more restrictive license such as the inclusion of SA (Share-Alike) or NC (Non-Commercial).

For the purposes of this grant, we define revision as the major improvement of a resource through updates for accuracy, accessibility, clarity, design, and formatting. We define ancillary materials as any materials created to substantially support the instruction of a course using an existing open educational resource(s).

While mini-grants do not normally require the Letter of Support process that larger Textbook Transformation Grants require, multi-institution collaborations on a mini-grant project do require a Letter of Support from each institution. This is to ensure that not only the Project Lead's institution is aware of the grant.

Applicant Name *

Tashia Caughran

Applicant Position *

Lecturer

Applicant Institution *

University of North Georgia-Oconee

Applicant Email Address *

Please use your institutional email address.

tashia.caughran@ung.edu

Other Team Members

Please provide both names and email addresses here.

Dr. Jeremy Cooper jeremy.cooper@ung.edu

Dr. Jim Konzelman jim.konzelman@ung.edu

Dan Sexton daniel.sexton@ung.edu

Type of Project *

☐ Revision of pre-existing OER

☐ Creation of ancillaries for pre-existing OER

☒ Other: Creation of new OER material

Course Number(s)

CHEM 2734L

Course Title(s)

Analytical Chemistry Laboratory

Final Semester of the Project *

This is the semester in which the materials created/revised will be completed.

☐ Fall 2020

☒ Spring 2021

Proposed Grant Funding Amount: *

This is the total (in a dollar amount) of funding you are requesting for the mini-grant. There is a maximum of \$4800, with a maximum of \$2000 per team member and \$800 for project expenses.

\$4800.00

Currently-Existing Resource(s) to be Revised / Ancillaries Created *

Please provide a title and web address (URL) to each of the currently-existing resources that you are either revising or creating new ancillary materials for below.

American Chemical Society Guidelines for Analytical Chemistry courses

<https://www.acs.org/content/dam/acsorg/about/governance/committees/training/acsapproved/degreeprogram/analytical-chemistry-supplement.pdf>

A search of the following website showed no materials concerning analytical chemistry courses:

<https://oer.galileo.usg.edu/>

Project Description *

In at least one paragraph, describe your project's goals and deliverables.

Students taking CHEM 2734 are students pursuing either an Associates or Bachelors degree in chemistry. The purpose of this proposal is to create open access laboratory experiments and exercises to complement the lecture portion of this course. The authors of this grant will determine course topics based on the guidelines of the American Chemical Society (ACS) so that any college or university with or without an ACS accredited program may use the material. Possible topics include UV-Vis spectroscopy, chromatography (TLC and or gas), sampling and sample preparation, electrochemistry, chemical titrations, and calibration and data analysis methods. In addition to including these fundamental topics for analytical chemistry, the authors plan to write the laboratory experiments to aid students in making the connection between societal concerns and chemical applications. For example, the experiments will be designed around ideas involving toxicology, criminal forensics, environmental problems, etc.

The proposal is to create sufficient lab experiments and materials for the one semester course.

The authors of this proposal feel this is a good fit for the affordable learning grants because we were able to find very few open access materials in this area.

Timeline and Personnel *

Provide a project timeline with milestones below, keeping in mind your selected Final Semester above. Provide a short description of the roles any additional team members will take on during the activities in your timeline.

All team members will be involved in each of the tasks listed below:

- May 1-10, 2020 Final topics for experiments will be determined
 - May 10, 2020-December 1, 2020: Lab experiment content and procedures will be developed during this time period. Trials of the experiments will also be performed to determine the success of the experiment, reliability of instrumentation in performing each experiment, and assessment of how well each experiment correlates to the CHEM 2734 lecture material.
 - CHEM 2734 lecture and lab will be taught in the spring 2021 semester, and the experiments will be implemented in the course at that time. Edits to the experiments will be made at the end of the semester based on instructor and student feedback.
 - At the end of the spring 2021 semester, team members will compare results of the experiments and make assessments of the effectiveness of them.
 - Instructor notes, keys, laboratory preparation sheets, and safety guidelines for each experiment will also be completed at this time for future users.
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Budget *

Please enter your project's budget below. Include personnel and projected expenses. The maximum amounts for the award are as follows: \$4,800 maximum award, \$2,000 maximum per team member, \$800 maximum for overall project expenses. Unlike standard-scale and large-scale transformations, the maximum of \$800 is not a required element of the budget, but rather meant primarily for the purchase of specific tools and software which would help with improving resources.

Funds will be used for summer support for all team members (\$1,000 to each member).

A budget of \$800.00 will be divided among team members to attend and/or present a poster of the results at a local, regional, or SOTL scientific meeting.

Creative Commons Terms *

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