**Affordable Learning Georgia Affordable Materials Grants  
Continuous Improvement Grants Final Report**

*(or Mini-Grants, for R17 and earlier)*

# General Information

Date: 5/15/23

Grant Round: 21

Grant Number: M196

Institution Name(s): Georgia State University

Team Members (Name, Title, Department, Institutions if different, and email address for each):

|  |  |  |
| --- | --- | --- |
| Team member | Name | Email address |
| Team member 1 | Shelby Frost | sfrost@gsu.edu |
| Team member 2 | Todd Swarthout | swarthout@gsu.edu |
| Team member 3 | Mya Eveland | meveland@gsu.edu |
| Team member 4 | Amy Eremionkhale | aeremionkhale@gsu.edu |
| Team member 5 | Eye Eoun Jung, GRA | ejung11@student.gsu.edu |

Project Lead: Shelby Frost

Course Name(s) and Course Numbers: Principles of Microeconomics, ECON 2106

Final Semester of Project: Spring 2023

***If applicable to your project:***

Average Number of Students Per Course Section:

Number of Course Sections Affected by Implementation of Revised Resources: 12

Total Number of Students Affected by Implementation of Revised Resources: 1047

# Project Narrative

*Describe the course of your revision or ancillary creation project, including*

* *A summary of your project’s purpose, plan, and timeline.*

We sought this funding to continue the work we started with the R19 Transformation Grant we received. With initial funding from the R19 Transformation Grant (in addition to other funding we received), we were able to successfully create a new Principles of Microeconomics course with over 100 new online interactive tools which can be fully integrated into our LMS. We piloted the course in nearly a dozen different sections to over 900 total students in the 2021-2022 academic year. Results were encouraging, but there were a few minor issues with the new online interactive tools – related to how they were integrated into our LMS. With the new R21 Continuous Improvement Grant, our plan was to update our newly designed OER Principles of Microeconomics course over summer 2022 and to pilot the updated version in the 2022-2023 academic year. We also planned to expand the dissemination of our new project with conference presentations, published papers, and a new website.

* *The original works which were revised or added to, with links. For example, if you revised an open textbook, give the title, author, and link.*

We revised our entire OER course, updating some of the content. We revised the online interactive tools which we had originally produced as part of the R19 Transformation Grant. The updated versions of the tools are found here: <http://econreimagined.gsu.edu/tools.html>

* *A narrative description of how the project’s plan was carried out.*

In summer 2022, we did a full review of the OER Principles of Microeconomics that we had created in the previous year. This included updating the SCORM packages (to a newer SCORM version) for all the original online interactive tools we previously created. The content in many of these tools was updated to include more feedback on practice tools and improved questions/answers on several tools where content issues were discovered in the pilots during AY 2021-2022. We also updated some of the other elements of our course, including learning material and assessment native to our LMS. We created an updated website to broadly share our story and our work: <http://econreimagined.gsu.edu/>. We have one published paper in a peer-reviewed economics journal: ["Online Interactive Pedagogical Tools for the Principles of Microeconomics Curriculum," *Eastern Economic Journal* (2022)](https://rdcu.be/cZoLQ). We received a [5 star peer review rating](https://www.merlot.org/merlot/viewCompositeReview.htm?id=1381354) of [our materials](https://www.merlot.org/merlot/viewMaterial.htm?id=773413393) cataloged on MERLOT. We presented our work at several conferences, including:

* + [AEA Conference on Teaching and Research on Economic Education](https://www.aeaweb.org/about-aea/committees/economic-education/ctree/2022), American Economic Association, Chicago, Illinois. (June 1, 2022).
  + [Southern Economic Association Annual Conference](https://www.southerneconomic.org/event/7662b305-ad92-474d-8f2c-bce1240b9858/websitePage:7c55c76b-0bff-4bc1-8991-97b1d6bb4ebe), Southern Economic Association, Fort Lauderdale, Florida. (November 19, 2022).
  + [Allied Social Science Associations Annual Meeting](https://www.aeaweb.org/conference/2023/program), American Economic Association, New Orleans, LA. (January 16, 2023).
  + [Open for Student Success 2023: Georgia State University Mini-Conference Sponsored by the University Library](https://research.library.gsu.edu/openforstudentsuccess), [ECON Reimagined: Our OER Success Story](https://mediaspace.gsu.edu/media/Microecon+Reimagined+2023/1_gh9rzlq6), Pre-recorded Lightening Talk, online. (March 3, 2023).

* *Lessons learned, including anything you would do differently next time.*

After piloting the new online interactive tools that we developed for our OER Principles of Microeconomics course in the updated SCORM package format, we have decided that it would be better to integrate them differently into our LMS, namely utilizing an LTI framework. We believe this requires a larger commitment from some of the IT staff at GSU, and we have discussed that with them.

# Materials Description

*Describe all the materials you have created or revised as part of this project. These descriptions may be used in the* [OpenALG](https://alg.manifoldapp.org/) *repository description field. Include the* [*open license your materials will be shared under*](https://creativecommons.org/share-your-work/)*—for most materials, this will be an Attribution 4.0 License (CC BY) as required in the Grants Request for Proposals.*

We updated the [Interactive Tools for Principles of Microeconomics](https://alg.manifoldapp.org/projects/interactive-tools-for-principles-of-microeconomics) which we created last year. This work is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](http://creativecommons.org/licenses/by-nc-sa/4.0/).

# Materials Links

*If you are hosting your materials in places other than OpenALG, please provide these links in this section. Otherwise, leave blank. Note: we cannot access D2L or Canvas links.*

[**http://econreimagined.gsu.edu/**](http://econreimagined.gsu.edu/)

# Future Plans

* *Describe any planned or actual papers, presentations, publications, or other professional activities that you expect to produce that reflect your work on this project.*

We are working on an efficacy study of our OER project. Our plan is to submit at least one paper related to this study soon. We are on the program to present an early draft of the first such paper at the [AEA Conference on Teaching and Research on Economic Education](https://www.aeaweb.org/about-aea/committees/economic-education/ctree/2023) on June 1, 2023. We also plan to write another paper about the development of our new OER course, with more of a focus on the instructional design elements. We will continue to promote our work at conferences.

* *Describe any plans to revise or add to these materials in the future.*

With some additional funding in summer 2023, we are planning to update the online interactive tools again. We plan to convert them from the SCORM packages to an LTI framework for integration with our LMS. We also hope to develop both instructor and student dashboards to help monitor student progress. We will likely continue to update content and expand the number and scope of the online interactive tools over time, but that certainly depends on future funding.