

# Transformation of the Physics and Astronomy courses

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The science education in universities has several deferring moments for the general student population outside of the Physics/Astronomy fields or STEM in general. A large contribution to that comes from the high cost of the textbooks that is typical for the introductory physics and astronomy courses. Another is the lack of supporting class materials, such as audio-video materials and support tools for activities. This poster will cover the class transformation activities under the ALG grant to adopt the free textbooks from OpenStax for the intro Physics 1-2 and Astronomy 1-2 sequences, and to create the supporting materials such as presentations, tests, audio-video materials and in-browser run online tools for the class activities as applicable to the courses listed above. Adaptations to online or hybrid teaching style will be also noted, and students' survey results will be included as well.

## Keywords

science education, class transformation, free textbook, class materials

## Collaboration

## other Collaboration

## Subcategory

Outreach and Education

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