

1135-P1-3238 **Dana C. Ernst*** (dana.ernst@nau.edu). *Open-source course materials for an inquiry-based approach to an introduction to proof course and abstract algebra.*

The speaker has written two open-source inquiry-based learning textbooks. One of the books is intended to be used for an introduction to proof course while the second book is designed for an undergraduate abstract algebra course. Both books are available as free downloads via GitHub. The initial development of the abstract algebra book was funded by a Small Grant from the Academy of Inquiry-Based Learning. In addition to saving students the cost of a textbook, the open-source model allows faculty members to adapt the books to their specific purposes. To our knowledge, roughly 30 different instructors have utilized at least one of the textbooks. In this talk, we will take a tour of both books, discuss their pedagogical approach, and communicate some of the design decisions that were made when creating the books. (Received September 27, 2017)