Mohamed I Jamaloodeen* (mjamaloo@ggc.edu), Georgia Gwinnett College, 1000 University Center Lane, Lawrenceville, GA 30043, and Katherine Pinzon (kpinzon@ggc.edu), Sebastien Siva (ssiva@ggc.edu), Josh Roberts (jroberts7@gmail.com) and Daniel Pragel (dpragel@ggc.edu). A no text transformation of a Discrete Mathematics course funded by an Affordable learning Georgia Grant.

We describe a no text transformation of a discrete math course at Georgia Gwinnett College. The work is funded by an Affordable Learning Georgia (a University System of Georgia initiative to promote student success by supporting the implementation of affordable alternatives to expensive commercial textbooks) Grant. The transformation addresses course objectives students find challenging: i) Being able to understand and construct mathematical arguments; ii) Demonstrate algorithmic thinking by verifying that algorithms work and analyzing the time required to perform them; and iii) Use appropriate technology in the evaluation, analysis, and synthesis of information in problem-solving situations. The team developed quality content materials and audio-visual ancillary materials to replace the current textbook. These are designed to be more appropriate for the type of students in information technology (ITEC) programs such as those at GGC. The design of the materials involved integrating algorithms and their analysis and implementing their code throughout the course. One of the authors is attending the American Institute of Mathematics workshop,” Interactive assessments in open source textbooks” to be held in December 2019 and will present applications from the workshop. (Received September 11, 2019)