

ABSTRACT

RESEARCH PROJECT: Structural Equation Modeling: An Investigation of Self-Regulated Learning

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DEGREE: Master of Science

COLLEGE: Teachers

DATE: December, 2020

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The fields of science, technology, engineering, and math (STEM) experience elevated levels of attrition. The broad research agenda of this work aims to investigate these levels of attrition through the lens of self-regulated learning (SRL). Zimmerman's (2000) SRL model was incorporated, consisting of three, interdependent phases: the forethought phase, performance phase, and self-reflection phase. The three phases were structured around a single task, a biology exam. Before the role of SRL model on academic performance could be assessed, a preliminary study was conducted. This preliminary study included two mediational models, a full and partial. The mediation models aimed to establish the functioning of the SRL model within a domain-specific sample. Results indicate that a fully mediated model did fit better, aligning with the literature. However, the model fit and differences between the two models was not significant enough to establish definitive results.