

TEMPLE COLLEGE
Exponential Success: Strengthening Foundational Mathematics
Quality Enhancement Plan Executive Summary

Temple College's Quality Enhancement Plan (QEP), **Exponential Success: Strengthening Foundational Mathematics**, reflects the mission of the College, which is to educate "a diverse population" of students. The goal of this QEP is to enable students to successfully transition through foundation mathematics courses in order to complete core mathematics courses.

Literature review and statistical data support an interest and need for this QEP topic. Research suggests that of all foundation courses, mathematics presents the most pronounced obstacle for students. In addition, students who complete foundation mathematics courses still have difficulty completing core curriculum mathematics courses. The statistical data for Temple College show the enrollment numbers for foundation mathematics courses are higher than other foundation courses; however, the success and retention rates are lower for foundation mathematics courses than other foundation courses.

Exponential Success will help students make a successful transition from foundation mathematics courses to core curriculum mathematics courses by requiring skills assessment in which students demonstrate preparedness to continue to the next level of mathematical study. Additionally, the implementation of a defined set of interventions will assist the student in meeting the objectives and learning outcomes set forth in the QEP. The interventions are designed to provide the students with experiences to help them more readily integrate into the college culture. Familiarization with college processes will increase the likelihood that students will take advantage of the services available to prepare them for the rigor of college-level courses. Finally, faculty who work with foundation students will participate in professional development training which will expose students to best practices resulting in new and improved learning techniques to help ensure student success.

Data-driven monitoring of the students through **Exponential Success** and the completion of core mathematics courses will allow the College to measure the impact of its Quality Enhancement Plan. The effectiveness of the QEP interventions will be measured by analyzing survey data, retention data, student grades, and course completion rates. These strategies will be evaluated every semester and revisions will occur as needed. Through data analysis, areas of improvement can also be identified so that the College can assess and revise its student success initiatives. Successful integration of this QEP will create a learning environment at Temple College that will give students the necessary skills to achieve academic success.

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