



QEP: Tech Promise

Institution	Fisk University
QEP Title	Tech Promise – Computational Thinking Across the Curriculum
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The Fisk Quality Enhancement Plan (QEP), **Tech Promise** – *Computational Thinking Across the Curriculum*, focuses on infusing Computational Thinking across the institution’s curriculum over a five-year period (2022-2027). The QEP is aligned with Fisk University’s mission to produce graduates from diverse backgrounds with the integrity and intellect required for substantive contributions to society. Our curriculum is grounded in the liberal arts. Our faculty and administrators emphasize the discovery and advancement of knowledge through research in the natural and social sciences, business, and the humanities.

The students of all majors take a Technology Literacy Course in Freshman year, where students learn computational thinking skills using coding and data analysis tools.

Student Learning Outcomes

There are four (4) student learning outcomes are:

1. **Decomposition** – Students will be able to break down a complex problem into subsets of smaller more manageable problems.
2. **Pattern Recognition** – Students will be able to find patterns within data or methods to solve the problem.
3. **Abstraction** – Students will be able to focus on key details and ignore irrelevant information.
4. **Algorithm** – Students will be able to take steps to solve each of the smaller, decomposed problems.

There are pre- and post- assessments for the Technology Literacy Course; the assessments include both content-based assessment and self-evaluation to determine competency and perception respectively. Moreover, there are indirect assessments such as Senior Exit Surveys and participation in Annual Fisk Research Symposium. There are faculty development workshops and training sessions for related instructors and staff members.

The QEP is aligned with Fisk University’s strategic plan (2023-27) in providing professional development opportunities for students to enhance their readiness for jobs and developing co-curricular opportunities that enhance students’ career competitiveness.