



MARSHALL'S STRATEGIC VISION - *Our Bold Constellation for the Future*

Status Update for: Plan, pilot and Launch the Marshall/West Virginia Science Technology Engineering Math (S.T.E.M.) Academy



Overview of S.T.E.M. Academy – *envisioned* as a model high school academy featuring leading-edge math and science instruction that yields high-level student achievement as evidenced by research-based outcomes. Student experiences will be enriched through learning opportunities, which amplify conceptual foundations, as well as applications involving problem- and project-based learning approaches that integrate the S.T.E.M. disciplines. Opportunities for developing fine arts and other areas of enrichment are also conceived as part of this endeavor.

This high school academy will operate on the Marshall University Huntington campus and enlist experimental laboratory and other resources of the campus to advance inquiry- and problem-based student learning. A feeder K-8 program (e.g., Gold Medal schools, Kellogg School) is envisioned that will prepare students for entry into the Academy. The Academy will initially feature day school learning opportunities, which eventually will be augmented by residential capabilities that will permit statewide student participation. In addition, a virtual programming aspect of the Academy will be developed for use by public school districts across West Virginia.

SPECIFIC FOCUS AREAS:

- [Integration with 21st Century Skills](#)
- [Professional development](#)
- [Content knowledge and clinical experiences](#)
- [Academic enrichment](#)
- [Research clearinghouse](#)
- [Liaison with external organizations](#)
- [Grant-writing](#)
- [Public outreach](#)

CONCEPTUAL REPRESENTATIONS

- [Model Academy](#)
- Illustrative [Diagram](#) – High School
- [Middle School](#) Concept
- [Tri-State](#) Consortium Initiative
- K-8 [Gold Medal](#) Schools
- WV [Statewide Initiative](#)

To learn more visit this Strategic Initiative at: <http://www.marshall.edu/president/strategic/STEM.asp>