

Eastern Kentucky University

STEM-H Institute

Strategic Plan

2012 - 2015

Vision Statement

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Students in Kentucky will become leaders in the global STEM-H driven economy.

Mission Statement

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The STEM-H Institute's mission is to increase the number of K-20 students in the Commonwealth of Kentucky who are interested in and able to complete the degrees and/or preparation required to enter the Science, Technology, Engineering, Mathematics and Health (STEM-H) workforce.

Goals and Objectives

Goal 1

Support and expand the long-term partnerships/relationships between ECU faculty, staff and students and K-20 schools and communities to develop integrated collaborations focused on student needs.

Objective 1.1 Coordinate replication of the Mathematics Transition Initiative in other STEM-H disciplines based on student needs and faculty and community expertise and commitment.

Measures:

- *Number of new initiatives*
- *Needs assessment*
- *Identification of faculty and community expertise and commitment*

Timeline:

- *Create one new initiative by May 2013*
- *Needs assessment completed by June 2013*

Objective 1.2 Develop and maintain a system of relational infrastructure to aid effective communication amongst all partners.

Measure:

- *Existence of the system by end of academic year 2012-2013*

Objective 1.3 Develop formalized partnerships with stakeholders.

Measures:

- *Number of documented formal partnerships through MOAs*
- *Co-Principal Investigators on grants, etc.*

Timeline:

- *Create one new formalized partnerships by May 2013*

Goal 2

Advance the public understanding of the needs and opportunities in the STEM-H disciplines.

Objective 2.1 Develop and maintain a STEM-H public website to include social media (i.e., Facebook, Twitter, Blog), online newsletter and podcast.

Measure:

- *Google Analytics*

Timeline:

- *Launch website by beginning of academic year 2012-2013*

Objective 2.2 Coordinate and facilitate presentations and conversations with stakeholders.

Measure:

- *Number of presentations to different stakeholders*

First Priority Topic:

- *Career awareness in STEM-H*

Objective 2.3 Develop KET programming for the STEM-H Institute.

- What is the STEM-H Institute about?
- STEM-H fields
- Where does Kentucky stand in STEM-H today?

Measures:

- *Number of programs*
- *Viewership*

Goal 3a

Increase the learning opportunities and levels of achievement for K-20 students in the STEM-H disciplines.

Objective 3a.1 Assist partnering schools in creating strategies to recruit and retain students in the STEM-H disciplines.

Measure:

- *Number of schools assisted*
- *Increased Enrollment in the STEM-H disciplines (courses) in the schools assisted*

Objective 3a.2 Review and improve curriculum in the STEM-H fields, including articulation and dual credit options.

Measure:

- *Number of schools assisted*

Objective 3a.3 Encourage and support ECU faculty, staff, and students in providing/participating in activities related to this goal.

Measure:

- *Number of ECU faculty participating*

Goal 3b

Increase the learning opportunities and levels of achievement for ECU students in the STEM-H disciplines.

Objective 3b.1 Recruit and retain students in the STEM-H disciplines.

Measure:

- *Increased Enrollment in the STEM-H disciplines*

Objective 3b.2 Create and sustain collaboration among departments/colleges for new degree programs (Professional Science Master (PSM)), options (3+2 options for STEM-H disciplines) and tracks.

Measure:

- *Number of new collaborative programs/options*

Objective 3b.3 Provide professional development for the STEM-H faculty, staff, and students to increase their knowledge of opportunities and changes in their fields.

Measure:

- *Number of participating faculty, staff and students*

Objective 3b.4 Encourage and support ECU faculty, staff, and students in providing/participating in activities related to this goal.

Measure:

- *Number of new project/activities conducted by ECU faculty, staff and students*

Goal 4

Encourage and facilitate faculty and staff to seek and manage external funding for their STEM-H activities.

Objective 4.1 Support faculty in seeking external funding.

- Partnership with Sponsored Programs
- Provide a newsletter announcing STEM-H grants
- Provide workshops on targeted STEM-H grant development

Measures:

- *Amount of funding*
- *Number of grants submitted*

Need:

- *Staff position dedicated to writing Grants, assisting faculty and staff with managing their grants*

Objective 4.2 Start a fundraising campaign in partnership with the University Development Office.

Measure:

- *Existence of the fundraising plan/campaign*
- *Amount raised*

Timeline:

- *Will raise \$\$\$\$\$\$ by 2015*

Objective 4.3 Create and foster relationships with local, state and federal agencies (such as, but not limited to: the Council on Postsecondary Education (CPE), Kentucky Department of Education (KDE), US Department of Education, National Science Foundations (NSF), and National Institute of Health (NIH)) that support outreach, teaching, professional development and research in STEM-H disciplines.

Measure:

- *Number of grants awarded*
- *Reports (CPE)*
- *Visit to headquarters of the agencies and campus visits by the agencies officials*

Stakeholders

- Agencies
- Business and Industry
- Community and Technical Colleges
- Community Members
- Cooperatives
- Council on Postsecondary Education (CPE)
- Education Professional Standards Board
- EKV Entities (i.e., CEDET, Centers, etc.)
- Foundations
- Grant Agencies
- Health Care
- Home Schools
- Kentucky Department of Education (KDE)
- Legislators
- Parents
- Principals, Guidance Counselors and Teachers
- Private Schools
- School Districts
- Students
- Universities – Faculty and Staff
- Workforce Development